Loc. Proj. Num. Te	eam Field G	end	er Students	Title
Y68 061-110-G2		F	Vani Putheti & Anjana Shyam	What is the difference in heart rate, blood pressure, and pulse? -
				video games vs virtual reality
Y69 061-120-D1	BehavSci	F	Safaa Hussain	To Praise or Not to Praise?
Y70 061-130-91	BehavSci	F	Leah Ning	How does music affect your typing speed and accuracy?
Y71 061-140-51	BehavSci	F	Manasvini Kothari	Name that Hue
Y72 061-150-11	BehavSci	F	Alexandria Pak	Time Flies By
Y73 061-160-D2	T BehavSci	F	Danielle Gillai & Eliana Roy	Book versus iPad
Y74 061-170-A1	BehavSci	F	Rachel Larson	Does Age Affect the Memorization of Numbers?
Y75 061-180-61	BehavSci	F	Christine Xu	How does the size and age of the dog affect its adoption rate?
Y76 061-210-91	PlantSci	F	Jasmine Clancy	Grow, Grow, Grow Your Plants
Y77 061-211-71	PlantSci	F	Hooria Khalid	The effect of gray water on plants
Y82 061-220-51	PlantSci	М	Jonathan Swartz	The Amount of a dandelions Root that is needed to be pulled out to
				prevent future growth
Y84 061-221-22	T PlantSci	F	Samantha de Kay & Michaela Tibbils	Plant pockets
Y85 061-230-11	PlantSci		Pareekshith Krishna	What is the effect of Seaweed on a Potato Plant's Growth?
Y86 061-231-G1	PlantSci	F	Kavya Pandrangi	Which indoor plant absorbs the most carbon dioxide?
Y87 061-240-E1	PlantSci	М	Shravan Kannan	What is the effect of nitrogen, carbon dioxide and ammonium
				phosphate on the growth of algae in a photobioreactor?
Y88 061-241-C1	PlantSci	F	Isabella Ayres	What is the effect of growth medium on plants
Y89 061-250-A1	PlantSci	F	Morgyn Tilton	Can plants stop soil erosion?
Y92 061-251-81	PlantSci	F	Natalya Sanchez	Eggshells versus Fertilizer
Y93 061-260-61	PlantSci	F	Annmaria Antony	Hydroponics: Preventing Water Loss
Y94 061-270-21	PlantSci	М	Benjamin Hayes	Fruit Weight Loss Through Dehydration
Y95 061-280-F1	PlantSci	М	Pranav Amarnath	The Effect of the Thickness of the Oil Layer on Production of Oxygen
				in Aquatic Plant Myriophyllum
P95 061-290-B1	PlantSci	F	Emma Lenchenkova	Saline Hydroponics
P94 061-320-E1	AnimalSci	F	Arti Gnanasekar	Investigating the Effects of Different Chemical Composition of
				Pesticides on the Survival of Honey Bees
P93 061-410-A1	BiocheMic	F	Arya Srivastava	Fighting Food Waste: The effect of E. coli on excess food
P92 061-430-21	BiocheMic	F	Nikita Senthil	Investigating the effect of different stress factors on the lipid
				production in green microalgae
P91 061-440-E2	T BiocheMic	М	Harsha Rajkumar & Akhil Ramkumar	A Complete Plastic
P90 061-450-B1	BiocheMic	F	Chidubem Nwosu	Does Compost Enhance Plant Growth?
P88 061-460-62	T BiocheMic	F	Reya Yeddula & Trisha Reddy & Anushka Parandekar	Lifeless to Luscious: Testing Brands of Lotion
P87 061-610-B1	MedHeaSci	F	Steffi Mathew	What is the effect of type of food and combinations of food on
				amount of probiotic bacteria grown on agar plates?
P86 061-640-G1	MedHeaSci	М	Aditya Srivastava	Canned versus Frozen foods
P85 061-650-C1			Medha Bhattacharya	Is it possible to predict or match current face pictures based on the
			·	childhood face pictures?
P84 061-660-72	T MedHeaSci	М	Chris Bailon & Gabriel Aquino	Do expensive sunglasses protect you more than cheaper sunglasses
P81 062-A10-E1	Chemistry	F	Maya-Lauren Le	Feast of Yeast
	•		•	

Loc. Proj. Num. Tea	am Field Ge	ende	er Students	Title
P80 062-A11-C1	Chemistry	М	Alan Lee	How Effective is Silica Gel in Food Package and Does It Last Until The Expiry date?
P79 062-A21-81	Chemistry	F	Jillian Horowitz	Do the Number of Mints put into Water Affect the Temperature of the Water?
P78 062-A30-61	Chemistry	F	Aashirya Rai	Vitamin C in Green Veggies
P77 062-A31-41	Chemistry	F	Snikitha Banda	Graffiti Removal
P75 062-A40-12	Γ Chemistry	М	Mason Chen & Amrit Janardhanan	Simulate Blood Fractionation Chromatology Project
P74 062-A41-H1			Stanley Shen	How do physical barriers affect the intensity of the UV rays?
P73 062-A51-C2	Γ Chemistry	М	Aaron Doerger & William Man	Relieving by dissolving
P72 062-A61-82	Γ Chemistry	F	Tatiana Daza & Jazmin Torres	Serious Soda Stains
P69 062-A70-71	Chemistry	М	Anirudh Venkatraman	Production of Bioplastics from Vegetable Waste
P68 062-A71-51	Chemistry	М	Nihal Gunukula	What temperature above room temperature freezes faster than cold water?
P67 062-A80-31	Chemistry	F	Joyce Yang	What is the effect of time and temperature on the amount of sodium
				nitrate and nitrite contained in processed meats?
P66 062-A81-11	Chemistry	F	Maya Patel	What type of material retains the most amount of heat in clothing
P65 062-A90-G1			Malini lyer	The Effect of Viscosity on the Stability of Emulsions
P64 062-B10-61	CheEnvEng			Comparing the efficiency of different ferrofluids in cleaning up oil spills
P63 062-B20-21			Eleanore Kirshner	Soggy Sandwich Conundrum : Condensation-Free Ice Packs
P62 062-B30-F1	CheEnvEng			Effect of Water Cohesiveness on Performance of Dew Traps
P61 062-B40-B1	CheEnvEng	Μ	Roshan Bellary	The effect of an intensification of a beam of light and time on the
				energy output of a solar panel
P60 062-B50-62	T CheEnvEng	F	Tasha Lera & Emily Hwang	Size constraints of an under-water dwelling using everyday materials
N60 062-B60-31			Jenna Papenfuss	A Comparison Of Three Different Solar Powered Hot Dog Cookers
N61 062-B70-F2			Sarahy Cuatepotzo & Anahi Berumen	Smog catcher
N62 062-C10-F1			Namrata Nair	The Effect of Types of Polymer Materials in Soil on the Moisture of the Soil
N63 062-C11-D1			Nidhya Shivakumar	Halophytes:A Potential Solution for the Remediation of Soil in Saline Wastelands
N64 062-C12-B1			Christian Moran	Energy Production During the Year
N65 062-C20-B1			Sydney Stutzman	The Rate of Decay on Various Materials
N66 062-C21-91			Alex Althouse	Carbon sequestration with palm and fern
N67 062-C22-71		F	Mridula Naikawadi	Sources and Effects of Radiation Around Me
N68 062-C30-71			Leyla Murgia	Warkawater Tree
N69 062-C31-51			Maahika Gupta	What is the effect of photosynthesis in a Martian environment?
N72 062-C32-31			Miriam Gutierrez	Plant vs Soil Pollution
N73 062-C40-31			Yousuf Shaik	Conventional Oven or Solar Oven, which is more Efficient
N75 062-C41-H2			Jayden Oltmann & Kendrick Lam & Kylan Siwinski	Chlorine Filter Efficiency
N76 062-C42-F2			Tejas Oberoi & Ornob Barua	Finding Simple Ways to Purify Water
N77 062-C50-G1			Yusuf Atesoglu	The Effect of plastic bottles on reducing copper from contaminated water
N78 062-C51-E1			Connor Counts	The Cool Cooler
N79 062-C52-C1			Abhineet Pal	The Effect of Time Scales on the Measurement of the Local Geomagnetic Field
N80 062-C61-A1			Parth Kasmalkar	Earthquakes: How much shaking can these buildings take?
N81 062-C62-81			Brayden Callan	Which Seawall Shape Best Mitigates Storm Surges?
N84 062-C70-81			Talha Aziz	Burning Biomass Briquettes
N85 062-C71-61	EarEnvSci	F	Sophia Campbell	Earthworms' Diet and their Effect on Soil

Loc. Proj. Num. Tea	am Field G		Title
N86 062-C80-41	EarEnvSci	M Ayman Rabia	Impact of Different Oil Spill Cleaning Techniques on Water Quality
N87 062-C81-21	EarEnvSci	M Tanush Maheshwari	The Effect of Accelerators on Composting Green Waste
N88 062-C91-F1	EarEnvSci	M Jay Sampat	WAAS versus Regular GPS Mode
N89 062-D10-71	PhysAstr	M Chester Tsze	Speed and spacing of dominos
N90 062-D11-51	PhysAstr	M Sritej Ponna	Electromagnetic Fields
N91 062-D12-22	Γ PhysAstr	F Isabelle Latala & Caitlin O'Donnell	The Dropping Cell Phone Case
N92 062-D13-11	PhysAstr	M Alexander Lee	Can You Hear Me Now? Materials and Construction Characteristics
	-		that Block Cell Phone Signals
N93 062-D20-31	PhysAstr	M Rory Wilson	Is it possible to build a low cost gamma ray detector to detect spooky
	•	•	action at a distance?
N94 062-D21-11	PhysAstr	F Koena Gupta	How Does Temperature Affect The Bounciness of a Bouncy Ball?
N95 062-D22-F2	Γ PhysAstr	F Abby Peyton & Alex Mull	Spastic Sound Waves
M95 062-D23-E1	PhysAstr	M Christopher Wong	Motors and magnets
M94 062-D31-E1	PhysAstr	F Agnes Wang	The effect of a rubber band's width on its spring constant and potential energy
M93 062-D32-C1	PhysAstr	M Ishaan Agrawal	The Affect of different Modifications on a Structure's ability to
	•	-	withstand Seismic Waves
M92 062-D33-A1	PhysAstr	M David Kipp	Downhill Coasting
M91 062-D41-A1	PhysAstr	M Rishi Cherukuri	Investigating the Period of Oscillation of a Simple Pendulum
M90 062-D42-81	PhysAstr	F Allison Bang	Which Ball Creates the Least Drag?
M89 062-D43-61	PhysAstr	M Ruhan Gianchandani	Electric Eye
M88 062-D50-72	Γ PhysAstr	M Shrey Chaudhary & Aarush Arora	Measuring Gravity
M87 062-D51-61	PhysAstr	M Siddharth Sai	STOP underwater noise pollution!
M86 062-D52-41	PhysAstr	F Emily Chang	What type of fabric works best for parachutes?
M85 062-D53-21	PhysAstr	F Kira Hah	The Effect of Temperature on the Speed of Sound
M84 062-D60-41	PhysAstr	M Daniel Siegel	Measurement and Analysis of Resonant Frequencies in Thin Plates
	-	-	using Sound Waves
M81 062-D61-21	PhysAstr	F Dhanashri Purohit	Zip Lines: Look Before You Leap
M80 062-D62-H1	PhysAstr	F Avani Kulshreshtha	Thinking Thermal
M79 062-D70-G2	Γ PhysAstr	F Jacqueline Lee & Allison Lew	Surface Tension Overload!
M78 062-D71-F1	PhysAstr	M Rohan Bansal	Let's Fly - The Effect Of Airfoil Design On Lift
M77 062-D72-D1	PhysAstr	F Anika Pandey	Effect of Nano-particle Hydrophobic Paint on the Surface Tension
			and Surface Bonding of Water
M76 062-D80-D1	PhysAstr	M Avanish Davuluri	Effect of Salinity on the Conductivity and Total Dissolved Solids of water
M75 062-D81-B1	PhysAstr	F Sydney Gorin	Solar Cell Optimization
M74 062-D82-91	PhysAstr	F Arya Prabhu	Up, Up, and Away! Aerodynamics
M73 062-D90-91	PhysAstr	M Joshua Lu	Effect of Shapes of Wings on the Flight Distance
M72 062-D91-62	Γ PhysAstr	M Nathan Hoppe & Benjamin Morgan	What is the effect of the height on the marble drop on the marble looping the loop?
M69 062-D92-51	PhysAstr	F Grace Cargill	Roller Coaster Magic: Converting Potential Energy to Kinetic Energy
M68 062-E10-F2	Γ ElecEng	F Shira Goldhaber-Gordon & Noga Rafalin	iPad Charging Bike
M67 062-E11-E1	ElecEng	F Aisha Kazi	Walk n Light
M65 062-E20-B2	Γ ElecEng	F Salma Siddiqui & Kira Fredericson	Sound Monitor

Loc. Proj. Num. Team Field	Gender Students	Title
M64 062-E21-A1 ElecEng	M Ishan Kar	Hands Free Motion and Obstacle Detector for the Visually Impaired
M63 062-E30-72 T ElecEng	M Gil Rubinstein & Henry Kofman	Portable Energy Generator (PEG)
M62 062-E31-61 ElecEng	F Dhwani Kharidia	Fast Energy Efficient Ultrasonic Dryer
M61 062-E40-41 ElecEng	F Yael Peleg	Wearable Reminder
M60 062-E41-21 ElecEng	M Nikko Baird	Converting radio waves into D.C. electrical energy
L60 062-E50-G2 T ElecEng	F Shira Rom & Gal Bejerano	Marble Mazes and Motor Skills
L61 062-E51-F1 ElecEng	M Brennen Ho	Wearable GPS Tracker
L62 062-E60-D1 ElecEng	F Ayana Wilmot	LED Gloves: A Communication Solution for the Hearing Impaired in the Dark
L63 062-E61-B1 ElecEng	M Roy Gross	Radiocartography: Mapping the Unseen World of Radio
L64 062-E70-91 ElecEng	M Bowen Hu	The Impact of The Generator Rotation Speed On AC Voltage And Frequency
L65 062-E80-51 <b>ElecEng</b>	F Aanvi Gera	Electricity from Air. "What is the effect of elapsed time on electric
· ·		charge harvested from electromagnetic waves in air
L67 062-E90-H2 <b>T ElecEng</b>	M Varun Sharma & Anshul Kolli & Agamjot Singh	Converting Body Heat Into Electricity
L68 062-F10-81 MechEng	F Michelle Chen	Exploring the mechanical strength of stent unit cells with different
_		patterns, widths, and thickness
L69 062-F11-61 MechEng	M Neal Dwivedula	Temperature effects on solar cells
L72 062-F20-41 MechEng	M Pramath Doddaballapur	Does the shape of the propeller blade affect the amount of lift generated?
L73 062-F21-21 MechEng	M Shubham Mohole	Effect of angle of incidence of solar rays on the output current from the solar panel.
L74 062-F31-F1 MechEng	F Mitali Mittal	Techniques for efficient sound insulation
L75 062-F40-C2 T MechEng	M Zach Berman & Sammy Burns	Motorized Egg Cracker
L76 062-F41-B1 <b>MechEng</b>	M Affanuddin Syed	The Strongest Bridge of All
L77 062-F50-91 <b>MechEng</b>	M Brian Chen	RotorCar: A Novel Idea to Reduce Traffic Using Flying Cars
L78 062-F51-71 <b>MechEng</b>	F Romina Jately	The BOHBOJ Crib
L79 062-F60-51 <b>MechEng</b>	M Saurish Srivastava	ETSBot: A Novel Cost Efficient Approach To Solve The Issue of Endangered Species
L80 062-F61-31 <b>MechEng</b>	F Jia Gill	How Different Types of Foundations Affect a Building's Resiliency
		Towards Earthquakes
L81 062-F80-E1 MechEng	M Ben Gleixner	Save The Ship
L84 062-F90-A1 MechEng	M Yu-Ting Chang	The Most Precise Nerf Dart
L85 062-H10-82 <b>T SoftEng</b>	F Lara Lew-Strass & Sarah Stern	Rolling Phone!
L86 062-H20-51 <b>SoftEng</b>	M Abdulrahman Naveed	Self Driving Car Technology
L87 062-H30-11 <b>SoftEng</b>	M Rohan Sinha	Location Notification System
L89 062-H60-61 <b>SoftEng</b>	M Parth Hathalia	Moisture Detection Platform
L90 062-H70-21 <b>SoftEng</b>	M Simon Koski	Going Up? Using a Genetic Algorithm to Optimize Elevator Controllers
L91 062-H80-F1 SoftEng	M Rohan Siva	Farmers Intelligent Helper
L92 062-H90-B1 <b>SoftEng</b>	F Khushi Nigam	Home Robot 9267X - Make Life Great Again
L93 071-130-в1 <b>BehavSci</b>	F Mica Horton	Social Media: Does It Affect Your Reputation?
L95 071-140-62 <b>T BehavSci</b>	M Ansh Chaurasia & Keshav Srikant	How does the amount of video game time affect our memories?
к95 071-150-31 <b>BehavSci</b>	F Isabella Hilton	How can your heart rate and blood pressure affect the way you ride a roller coaster?
к94 071-160-F2 <b>T BehavSci</b>	<sup>F</sup> / <sub>M</sub> Sharona Schwab & Leor Porat	Get Your Trash Right
к93 071-210-в1 PlantSci	F nithika karthikeyan	The effect of genotypes on the phytoremediation of heavy metals,
		introduced by fracking, in soil.

Loc. Proj	j. Num. Tea	m Field G	end	er Students	Title
K92 071-	-211-91	PlantSci	М	Joel Abraham	Hydroponics
K91 071-	-220-71	PlantSci	М	Aarav Billore	What is the Effect of Nitrogen Fixing Bacteria on the Biomass of a
					Pea Plant after One Month of Growth?
К90 071-	-221-42 <b>T</b>	PlantSci	F	Sahana Ravishankar & Pooja Manapat	Light vs glass
K89 071-	-230-31	PlantSci	F	Diya Iqlas	Which Starch Plant produces the most fuel?
K88 071-	-231-11	PlantSci	F	Aasia Hasan	How will phosphorus supplements affect growth of the stem and
					development of leaves of a plant grown with hydroponics?
K87 071-	-250-C1	PlantSci	М	Ezekiel Flores	Mini Hydroponics With Grow Lights
K86 071-	-260-81	PlantSci	F	Aylin Salahifar	Comparing Biodegradable versus Biobased Laundry Greywater on Plants
K85 071-	-270-41	PlantSci		Jeevet Kaur	To grow or not to grow
K84 071-	-280-H1	PlantSci		Madeleine Chow	Remove CO2 From Water Using Plants And Macroalgae
K81 071-	-310-31	AnimalSci	F	Divya Sundar	The Effect of Different Concentrations of Biopesticides and Chemical
					Pesticides on Earthworm Mass and Growth
K80 071-	-410-C1	BiocheMic		Prithi Srinivasan	Is Salt better than Soap?
K79 071-	-420-81	BiocheMic		Nimai Talur	Inhibiting Biofilms
K78 071-	-430-41	BiocheMic		Ahmad Ismail	Effect of structure and behavior of antifungal agents on the treatment of Candidiasis
K77 071-	-440-H1	BiocheMic	F	Lydia Cheng	Mealworms chow-down on plastic: The effect of using different kinds
					of plastic to see the effect on the mealworms' diet
K76 071-	-610-D1	MedHeaSci	F	Varsha Chilukuri	The Effect of Different Brands of Ibuprofen combined with different
					types of foods on the dissolution of the tablets
K75 071-	-710-51	BiomedEng	M	Adarsh Ambati	Low-Cost Cloud-based Contactless Vital Signs Monitor using Photo
					Plethysmographic Imaging & Infrared Sensing Techniques
K74 071-	-720-11			Yash Tipirneni	Personal MD - Life Saver
	-730-D2 <b>T</b>			Liv Levin & Dana Toussieh & Jacob Gans	Zzzleep
K69 071-	-750-61			Mahati Manda	Modeling Angioplasty: Detection of Density of Calcium Carbonate Deposits in Tubes
K68 072-	-A10-G1			Pujita Tangirala	A Green, Low-Cost Adsorbent for the Removal of Dye from Aqueous Solutions
K67 072-	-A11-E1	Chemistry	F	Sovie Shekhar	The Amount of Time Taken for the Oil Spill Polymer, Enviro Bond
					403, to Add-on to Different Oils in Tap and Salt Water.
K65 072-	-A20-B2 <b>T</b>	Chemistry		Spencer Cha & Ashwin Kannan	Electricity Outputs From Different Exothermic Processes
K64 072-		Chemistry		Anousha Athreya	The Effect of Light on the Potency of Antioxidants in Spices
		Chemistry		Natalie Perrochon & Gabby Farber & Naomi Barkan	Keeping apples beautiful: Which fruit's juice is the best for preserving apples?
K60 072-		Chemistry		Safa Mohammad	Increased hydrogen production in sea water electrolysis
J60 072-	-A41-21	Chemistry		Zoraiz Sabeel Syed	Efficient process to recycle waste cooking oil into reusable Biodiesel
J61 072-	-A50-H1	Chemistry	F	Ushoshi Basumallick	Let the Light Decide - Testing the compositions of common
					household liquids using a home made SpectroPhotoMeter
J62 072-		Chemistry		Lilian Shen	How are teeth affected by fluorides, acids, and beverages?
J63 072-		Chemistry		Mary Shen	Detection of Bacteria Spoilage In Milk With Different Fat Contents
J64 072-		Chemistry		James Huang	The effect of Aspergillus oryzae on a sake beverage's alcohol content (ABV)
J65 072-		Chemistry		Samuel Molson	Laser sugar measurer
				Sohan Nannra & Timothy Shao	Free Energy Emergency Lighting
J67 072-	-B20-32 <b>T</b>	CheEnvEng	F	Shanaya Malik & Archanaa Ramakrishnan	Burn Those Calories!

Loc. Proj. Num. Team Field Gender Students	Title
J68 072-B21-21 CheEnvEng F Princess Bergado	Water Bottle with Built-in Filter for Healthy Alkaline Water
J72 072-B30-G2 T CheEnvEng F Alana Yee & Bhavya Sankarappan	Testing the Effect of Temperature on Solar Cell Performance
J73 072-B31-F1 CheEnvEng F Herin Kang	Algae Oxygen Generator
J74 072-B40-D1 CheEnvEng F Samika Swamy	BioFresh Food Smarts: An eco-friendly, smart solution to reduce
	wastage of climacteric produce.
J75 072-B50-91 CheEnvEng M Ronan Ellerby	Effect of Chicken Living Conditions on Eggshell Properties
J76 072-B60-51 CheEnvEng M Arhan Rout	Solar enabled plant bed that optimizes available sunlight and
	conserves water for farmers
J77 072-B70-11 CheEnvEng F Marijka Vernooy	Growing With Greywater
J78 072-B80-E1 CheEnvEng F Prakriti Pragya	What is the effect of different photocatalysts on the amount of
	hydrogen produced in five minutes
J79 072-B90-92 T CheEnvEng F Jessica Wang & Jordyn Leak	Best Shampoo for Longest-Lasting Dye
J80 072-C10-H1 EarEnvSci M Austin Chen	Water Purification: Membrane
J81 072-C11-F1 EarEnvSci F Elana Dayen	Tsunami Generator
J84 072-C20-D1 EarEnvSci M Sameer Rao	The Effect of the Age of Cars on Levels of Carbon Monoxide Emission
J85 072-C21-B1 EarEnvSci M Luke Zhang	Does the concentration of salt in water affect its evaporation rate
J86 072-C30-91 EarEnvSci M Keshiv Tandon	Energy Conservation Using Color of Paint on Houses
J88 072-C31-62 T EarEnvSci F Catherine Tan & Josephine Tzou & Darshna Kulkarni	Solar Desalination
J89 072-C40-51 EarEnvSci F Aisha Khan	Water Permeability in Soil
J90 072-C41-22 T EarEnvSci F Katerina Vlahopouliotis & Madison Perone	Blue/Green Algae
J91 072-C50-11 EarEnvSci M Surya Tallavarjula	Development of Blocking Disc Method to Water Plants and Trees
	Efficiently and to Reduce Water Usage
J92 072-C60-E1 EarEnvSci F Danya Balagopal	Recycling Food Waste to Sequester Carbon, Improve Soil Nutrition,
	and Growth of Plants in Urban Environments
J93 072-C61-C1 EarEnvSci F Sukriti Badami	I'm Trying to Breathe Here!
J94 072-C80-61 EarEnvSci F Tanvi Rao	An Energy Efficient Home that Can Maintain Year Round Temperature.
J95 072-C90-21 EarEnvSci F Sofia Aliamus	Oxygen Concentration: Forest vs. City
н95 072-D10-91 PhysAstr F Aisha Aslam	What is the Effect of Difference in Intensity of UV Rays with Different
	Sources: the Sun Versus Tanning?
H94 072-D11-71 PhysAstr M Shreyas Basu	Changing the Speed of Light
н93 072-D20-51 PhysAstr F Nethra Srinivasan	Fluid Mechanics: The Effects of Temperature on a Liquid's Viscosity
H92 072-D21-31 PhysAstr F Shweta Arun	Projectile Predictions: What is the effect of the horizontal velocity and
	launch height on a projectile's landing point?
н90 072-D30-н2 T PhysAstr M Ethan Maruyama & Andrew Li	How does wind speed affect drone battery life?
H89 072-D31-G1 PhysAstr F Loretta Ting	Roller Coaster Marbles
H87 072-D40-D2 T PhysAstr F/M Nitya Rajendrarao & Samrath Sandhu & Sydney Talon	
н86 072-D41-B2 T PhysAstr M Enzo Teddy & Nikolas Teddy	What is the Effect of Garbage Bags on Water Temperature
H85 072-D51-81 PhysAstr F Xenia Torres	How Does Heat Transfer Through Metals vs. Alloys?
H84 072-D60-61 PhysAstr F Andrea Liu	Paddle Choices for Optimal Speed
H81 072-D61-32 T PhysAstr F Noa Talmor & Aurora Zeltser	How does changing temperature of a magnet affect its magnetic field strength?
H80 072-D70-21 PhysAstr M Sohum Pavaskar	Thermal Conductivity

Loc. Proj. Num. Team Field	Gender	Students	Title
н79 072-D71-H1 <b>PhysA</b>			Heating the Moon: Creating a Thermal Mass to Warm the Lunar Surface
H78 072-D80-F1 PhysA	tr M Justin Gubbens		How quickly does a focused picosecond green laser cut different
•			metal and non-metal materials with accuracy?
x10 072-D90-B1 <b>PhysA</b> :	tr M Arnav Gupta		Effect of Temperature on Magnetic Strength
H76 072-E11-F2 T ElecEr	g M Yoav Segev & Yah	nli Einav	Automatic dry dog food dispenser
н75 072-E12-D2 <b>T ElecEr</b>	g M Lorenzo Beronilla	& Ryan Liu	Blind Sight Cane
н74 072-E20-E1 <b>ElecEr</b>	g M Michael Lutz	-	Harvesting Electricity from Heat
н73 072-E21-C1 <b>ElecEr</b>	g M Diptanshu Sikdar		Wireless charging via an Ultrasonic - Piezoelectric Bridge
H72 072-E22-A1 ElecEr	g F Sindhu Saggeri		Wearable Light
н69 072-E30-A1 <b>ElecEr</b>	g M Hamza Said		Spice up the Power of Microbial Fuel Cell
н68 072-E32-61 <b>ElecEr</b>	g F Akshita Ponnuru		The Future for the Blind: A Navigation System Promoting Independence
н67 072-E40-61 <b>ElecEr</b>	g M Farzan Hashmi		Using IR detection to help the blind in mobility
н66 072-E41-41 <b>ElecEr</b>	g M Gurman Dhami		How does the amount of magnet wire on an electromagnet affect its strength?
н65 072-E42-21 <b>ElecEr</b>	g F Iris Zhou		Speed Detecting and Warning Device
н64 072-E50-21 <b>ElecEr</b>	g F Camilla Lindh		Visually Impaired Navigator
н63 072-E51-H1 <b>ElecEr</b>	g M Jacob Vuniwai Tur	ragavou	Glasses Finder
н62 072-E52-F1 <b>ElecEr</b>			Using Deep Learning Techniques to Detect Traffic Signals
н61 072-E60-E2 <b>T ElecEr</b>	g M Adam Vichik & Eric	c Cohan & Matan Sandhaus	Mouse Glove
н60 072-E61-D1 <b>ElecEr</b>			Navigational Techniques In Self Driving Cars
G60 072-E70-B1 <b>ElecEr</b>			A novel system for the reduction of drowning deaths in young children
G61 072-E71-91 <b>ElecEr</b>			Wi-fi strength through blockades
G62 072-E80-62 <b>T ElecEr</b>			The creation of a system that will free a dog during a fire
G64 072-E81-42 <b>T ElecEr</b>	g M Saurav Gandhi & 、	Jason Co & Jackson Moody	The iCane
G66 072-E90-22 <b>T ElecEr</b>	g M Roy Neumann & A	Amitai Smyla	Shoot Those Hoops: Basketball Scorekeeper
G68 072-E91-H2 <b>T ElecEr</b>		ea Jain & James Pham	How Accurate Is Your FitBit?
G72 072-F10-92 <b>T MechE</b>		y Cohen	Automatic Marshmallow Roaster
G74 072-F11-81 <b>MechE</b>			Building an Endurance UAV
G76 072-F12-52 <b>T MechE</b>		Amanda Kay & Amy Larson	The Litterbug: An EV3 Mindstorms Trash-Collecting Robot
G77 072-F21-41 <b>MechE</b>	ng F Tavleen Kaur		Does the type of liquid affect the maximum ratio of a hydraulic
			system? Can hydraulics be used to power household items?
G79 072-F22-12 <b>T MechE</b>		Angelos Panou & Ross Raineri	Lights On, Bacteria Off
G80 072-F30-21 <b>MechE</b>			Tsunami Guard: Finding the Most Effective Wave Breaker Design
G81 072-F31-H1 <b>MechE</b>			Softball Gear Holder
G84 072-F32-E2 <b>T MechE</b>		Jonathan Cohen	Window Cleaning Robot
G85 072-F40-F1 <b>MechE</b>			The Smart Cane
G86 072-F41-D1 <b>MechE</b>			Fruit Catcher
G87 072-F42-B1 <b>MechE</b>			Mag-Tag Magnetic Locking System
G89 072-F50-A2 <b>T MechE</b>		a Phatak & Diya Dhindsa	Creating an Earthquake-Resistant Building
G90 072-F51-91 <b>MechE</b>			Skateboard Improvement
G91 072-F60-71 <b>MechE</b>			Dry 'em the Green Way!
G92 072-F61-51 <b>MechE</b>	ng M Rahil Kapadia		Cooling Arm Sleeve

Loc. Proj. Num. Tea	m Field	Geno	der Students	Title
G93 072-F70-31	MechEng	M	Arijit Ghoshal	Mechanical Advantage of Various Gear Trains
G94 072-F71-11	MechEng	F	Anna Jun	Strength of Honeycomb Structures
G95 072-F80-G1	MechEng		Pranav Varmaraja	Designing a New Traffic System for the Bay Area
F95 072-F81-E1	MechEng	F	Navya Agrawal	Motion detecting walking stick for the visually challenged
F94 072-F90-C1	MechEng		Aeshon Balasubramanian	Solar Powered Thermoelectric Cooler
F92 072-F91-92 <b>T</b>	MechEng	Μ	Rishab Gupta & Tyler Louie & Akash Vig	Trash Compactors
F91 072-G10-21	Math		Brian Chang	A Numerical Solver for Finding the Distance a Ball Will Travel in Any Medium
F90 072-H10-B1	SoftEng	Μ	Shlok Shah	Autonomous vehicle crash avoidance algorithm
F89 072-H11-91	SoftEng	Μ	Krithi Koodli	Design of an Energy Device using Computer Simulation of Ionization
F88 072-H12-71	SoftEng	M	Krishna Ajjarapu	Alerting Others Using an Accelerometer: A Sleepwalker's Aid
F87 072-H20-71	SoftEng	F	Allyson Chiu	Forget Me Not Child Warning System
F86 072-H21-51	SoftEng	F	Veda Kamaraju	BlindAssist: A Novel Low-Cost Portable Device for Efficient Time
				Management to the Visually Impaired
F84 072-H22-22 <b>T</b>	SoftEng	F	Alexis Houle & Andrea Blazquez	Procrastination: the app that helps kids stay focused on school work.
F81 072-H30-31	SoftEng	Μ	Rishi Pankhaniya	Designing a Wristband to Aid the Visually Disabled
F80 072-H31-11	SoftEng	Μ	Keshav Balaji	Third Eye: The Helpful Eye for the Visually Impaired
F79 072-H32-G1	SoftEng	F	Shailee Nanavati	Student Life Helper Audio App
F78 072-H40-G1	SoftEng		Saisanthosh Musku	Pedometer that tracks Distance and Time per step
F77 072-H41-E1	SoftEng		Sneha Revanur	Developing Multi-Indicator Cluster Analytics to Improve Global Child Welfare
F76 072-H42-C1	SoftEng	F	Manvitha Pabbathi	Mobile Sleeper
F75 072-H50-C1	SoftEng		Arya Rajesh	An IoT For Detecting Forest Fires
F74 072-H51-A1	SoftEng		Impana Chimmalagi	We The Passengers (Pi and Python Can Save Airplane Tragedies)
F73 072-H52-81	SoftEng	F	Oviya Seeniraj	Debate Judging Assistant
F72 072-H60-81	SoftEng	F	Sanjana Jilla	Tempus Genie 2.0
F69 072-H61-61	SoftEng	F	Annika Viswesh	Oculus Patch Assistant
F68 072-H70-41	SoftEng	F	Deepali Joshi	Disease infographic
F67 072-H71-21	SoftEng	F	Anisha Narurkar	Smart Alert system for seniors
F66 072-H80-H1	SoftEng	Μ	Guy Knaan	Voice Swap
F65 072-H81-E2 <b>T</b>			Riya Gupta & Apoorva Talwalkar	Dance Imagination: Projecting Real-Time Special Effects Based on a Dancer's Motion
F64 072-H91-B1	SoftEng	F	Cady Chen	Toxic Plant Detector for Dogs
F63 081-120-G2 <b>T</b>	BehavSci	F	Anika Fuloria & Vidya Jeyendran	What is the effect of colored noise on students' concentration?
F62 081-130-D1	BehavSci	F	Olivia Carlino	Fast Talker.
F61 081-140-91	BehavSci	F	Genevieve Whitmer	The Phenomenon of Choice Blindness with Male and Female
F60 081-150-51	BehavSci	F	Alexandra Baeckler	The Effect of Given Names on a Shelter Animal's Adoptability
E61 081-160-H2 <b>Т</b>	BehavSci	F	Betsy Tian & Luisa Pan	Studies of the Learning Behavior of the Single Cell Organism, Stentor
				coeruleus, Under Various Types of Stimuli
E62 081-180-92 <b>T</b>	BehavSci		Maria Vazhaeparambil & Advika Phadnis	The Effect of Stress Relievers on Student Performance
E63 081-190-52 <b>T</b>			Annesh Ghosh Dastidar & Aditya Tadimeti	The Effects of Cardiovascular Exertion on Standardized Test Taking
E65 081-210-C2 <b>T</b>	PlantSci	M	Alex Zhai & Ray Wang	How do different concentrations of sodium chloride affect the growth
				rate and antibacterial strength of Aloe Vera?
E66 081-211-B1	PlantSci	F	Grace Li	A Natural Insulator: What is the effect of different plant types covering

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Loc. Proj. Num. Team	Field Ge	ender Students	Title
			roofs on the temperature of the buildings?
E67 081-220-91 Pla	antSci	M Alexander Thaik	The Effect of Different Additives and Carbon to Nitrogen Ratios on
			the Decomposition of Food Waste
E68 081-230-42 <b>T Pla</b>	antSci	F/ <sub>M</sub> Sidra Xu & Russell Yang	A Novel Solution to Algal Blooms by Inhibiting Photosynthesis Using
		-	Polystyrene Balls
E69 081-240-11 Pla	antSci	M Bowen Yin	Using Super Absorbent Polymers to Reduce Water Consumption in Plants
E72 081-250-D2 <b>T Pla</b>	antSci	F Pooja Gidwani & Riya Nilkant	The Effects of Unfiltered and Filtered Grey Water In Plants
E73 081-260-A1 Pla	antSci	F Arohee Bhoja	An Investigation of the Effects of Super-Absorbent Polymers on the
		,	Germination rates of Seeds
E75 081-270-52 <b>T Pla</b>	antSci	M Jonathan Chao & Andrew Chang	What is the effect of GFuel and earthworms on the rate of plant growth
E76 081-290-F1 Pla	antSci	F Tanvi Siddhaye	Does my plant need water?
E77 081-310-51 An	imalSci	M Ajay Mallya	Effects of environmental toxins on hemoglobin production in Daphnia magna
E78 081-411-B2 <b>T Bio</b>	ocheMic	F Hilari Fan & Elaine Zhai	Comparison of the Biodegradability of Plastics Made From Natural
			and Chemical Ingredients
E79 081-420-A1 Bio	ocheMic	F Ruchika Dixit	How Quorum Sensing and Media affect Bacterial Bioluminescence
E80 081-421-72 <b>T Bio</b>	ocheMic	M Krishay Mukhija & Justin Zau	Effect of Different Remedies or Medications on Acne
		M Karan Gurazada	The Effect of Broccoli Sprout Extract on Ameliorating the Harmful
			Effects of UV Radiation on Saccharomyces Cerevisiae.
E85 081-440-12 <b>T Bio</b>	ocheMic	F Anvitha Tummala & Pramiti Sankar	Comparing the inhibitory effects of homemade garlic extract versus
			store bought garlic extract on Streptococcus mutans
Е86 081-441-Н1 Віс	ocheMic	M John Kipp	The Effect of pH on the growth of Spirulina 'superfood' algae
		F Santoshi Tirumala & Shalini Rohra	Results of Ways to Dry Your Hands
		M Srikar Kolluru	Effects of Natural Antioxidants on Sodium Bicarbonate Deposits:
			Application for Amelioration of Atherosclerosis
E89 081-460-A2 <b>T Bio</b>	ocheMic	F Ankita Kundu & Elizabeth Szeto	Finding the Most Effective Two-Step Filtration System to Remove
			Biological, Mineral, and Chemical Contaminants in Water
E90 081-461-91 Bio	ocheMic	F Anushka Sanyal	Developing a tool for studying Alzheimer's: A bacterial expression
			vector for the M3-M4 fragment of the nAChR alpha-7
E91 081-480-31 <b>Bio</b>	ocheMic	F Anuja Katukam	What is the effect of the number of apples present on the ripening
	3011011110	, maja rataham	speed of a banana?
E93 081-490-F2 <b>T Bio</b>	ocheMic	M Shray Alag & Nikhil Gargeya	The Potential of Yard Waste in Comparison to Starch Crops for
133 001 130 12 <b>1 2</b> 10	SOLIOIVIIO	William Jangoya	Efficient Biofuel Production.
E94 081-610-F1 <b>M</b> 6	edHeaSci	F Alekhya Vadlakonda	The Effect of Curcumin on INS-18: Implications for a Natural
	ou icacoi	7 Tokitya Vadiakonda	Treatment for Type 1 Diabetes
E95 081-640-31 <b>M</b> e	edHeaSci	F Deepa Mahesh	Using machine learning to find associations between cardiovascular
173 001 010 31 1010	ou icacoi	1 Boopa Mariosii	disease data and clinical information.
D95 081-730-G1 <b>Bio</b>	nmedEng	M Shivek Narang	Done with a Blink of the Eye: Using Brain Waves to Aid a Paralyzed
DIO 001 130-G1 DIO	JillouLily	WI SHIVER Harang	Patient Communicate
D94 081-740-C1 Bio	nmedEng	M Samarth Girish	Watch Your Back: A Portable Device For Posture Detection
		F Jenna Houle	The use of a polymer based active cuff for the treatment of edema in
חסר בער אום בייס פפת <b>בו</b>	JilleuElig		the lower extremities
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Loc. Proj. Num. Team Field Gender Students	Title
D92 082-A10-11 Chemistry F Hannah Vogel	Common corrosion in metals
D91 082-A11-F2 T Chemistry F Ayah Ramahi & Umayrah Syed	How Much Caffeine are you drinking?
D90 082-A12-E1 Chemistry F Emma Lu	Which type of french fries has the shortest shelf life?
D89 082-A20-E1 Chemistry F Aditi Hariharan	The Effect of Different Chemicals on the Time It Takes to Remove Graffiti
D88 082-A21-C1 Chemistry F Anushka Aritharan	What is the effect of different ingredients in skin moisturizers on the
·	retention of moisture in the model human skin?
D87 082-A30-92 T Chemistry F Vaishnavi Murari & Nilisha Baid	How Egg Substitutes Affect Baking
D86 082-A31-81 Chemistry F Eunice Ho	Candy Chromatography
D85 082-A41-41 Chemistry F Priyal Patel	Does temperature affect how much vitamin C is in different brands of orange juice?
D84 082-A50-21 Chemistry F Roma Ankolekar	What is the fastest way to bring the pH level of creek water to
·	7(neutral) by boiling or adding chlorine dioxide tablets
D81 082-A51-H1 Chemistry M Gokul Ramapriyan	Photoelectrochemical Cell for Water Splitting: A Novel Approach to
	Hydrogen Production
D80 082-A71-91 Chemistry F Japji Singh	Lacking Lactase: The Science Behind Lactose Intolerance
D79 082-A80-71 Chemistry F Anokhi Shah	Giving Fruit Waste a Second Chance: Using Dried Peels as a Binding Agent
,	to Remove Toxic Metals from Contaminated Water
D78 082-A81-51 Chemistry M Mehrzad Gandhi	Antacid Potency
D76 082-A90-22 T Chemistry F Mary Hemker & Jillian Silva	How Caffeinated is Your Coffee?
D75 082-A91-11 Chemistry M Samarth Jayadev	How Separating Oxygen From Water Using Diffusion Could Help an
,	Infinite Breathing Time Under Water
D74 082-B11-81 CheEnvEng M Syed Hassan	The Effect of Corrosion on Metals
D73 082-B20-61 CheEnvEng M Vivek Veluvali	A novel method of forward osmosis involving iron nanopaticles
D72 082-B30-21 CheEnvEng M Kaushik Tota	Portable Water Bottle Which Utilizes a Ceramic Filter to Provide
•	Clean Water to Areas with a Polluted Water Supply
D69 082-B31-G2 T CheEnvEng F Sahana Rajmohan & Anika Bhatia & Sruthi Ramesh K	Go Grey - Laundry to Landscape Irrigation System
D67 082-B40-E2 T CheEnvEng F Annamma Vazhaeparambil & Aditi Vinod	A Method of Efficiently Purifying Gray Water in Homes to Use in
· ·	Neighborhood Backyards
D66 082-B41-C2 T CheEnvEng F Bhaswati Das Gupta & Lekhana Vankayala	Water Filter: An Effective, Cost-Efficient Way to make Ocean water
	Usable for Humans
D65 082-B50-B1 CheEnvEng M Zaid Yousef	From Waste to Water Filter
D64 082-B51-91 CheEnvEng F Arushi Patel	Code Green: Measuring Chlorophyll a levels in the Delta
D63 082-B60-71 CheEnvEng M Abdullah Naveed	Water to Fuel to Water: The Fuel Cycle of the Future
D61 082-B70-22 T CheEnvEng F Christy Vu & Alexa Mae Miranda	Al-go Away!: Filtering the Proliferation of High Biomass Algae
D60 082-B80-G1 CheEnvEng F Navroop Saini	Domestic Grey-water treatment and recycle system
C60 082-B90-C1 CheEnvEng F Saili Karkare	Vacuum Desalination
C61 082-C10-21 EarEnvSci M William Chang	Global Warming Affects Buoyancy?
C62 082-C11-G2 T EarEnvSci M Gabriel Ticau & Zeiler Randall-Reed	What Is The Best Way To Condense Water From Air?
C63 082-C20-F1 EarEnvSci M Mihir Heda	Eco-Friendly Calculator
C64 082-C21-D1 EarEnvSci F Eshani Arumalla	What conditions cause algae to produce the most oil?
C65 082-C30-B1 EarEnvSci M Zahreef Kazi	Help Earth live on! Cleaning Oil Spills with Natural Substances
C66 082-C31-91 EarEnvSci M Prithu Kachare	Effective Ways Of Capturing CO2 in Water

Loc. Proj. Num. Te	eam Field (	Gender Students	Title
C67 082-C40-71	EarEnvSci	F Misbah Syed	Catch the Wave! Energy obtained by harnessing ocean wave power.
C68 082-C50-31	EarEnvSci	F Cailin Le	Reusing Superhydrophobic Plants by Cleaning With Natural
			Surfactants in Oil Spill Clean-up
C69 082-C60-F2	T EarEnvSci	M Prathik Kakarlamudi & Aditya Udgaonkar	Real-time Air Pollution and Landfill Odor Data Analysis
C72 082-C70-C1	EarEnvSci	M Pranjal Agrawal	Does the Amount of Precipitation Have Any Effect on the Seismic
		, 0	Activity in California?
C74 082-C90-32	T EarEnvSci	F Audrey Chang & Navya Singhai	The Mumbo Jumbo of Gumbo, and Other Types of Soils: The
		, 3 , 3	Accomplishments of a Soybean
C75 082-D10-B1	PhysAstr	M Turner Thompson	Backspin on a basketball: Too much of a good thing?
C76 082-D11-82	T PhysAstr	M Cesar Cruz & Keith Ly	Does the material of an object affect its velocity?
C77 082-D20-62	T PhysAstr	M Arya Maheshwari & James Pflaging	Analyzing Trajectories: The Aerodynamics of Different Badminton Shuttlecocks
C78 082-D21-51	PhysAstr	F Jaclyn Mar	What is the effect of the impact of different ball types on the brain?
C79 082-D30-31	PhysAstr	F Malak Ashmawi	Blood Splattering Patterns: Effect of Height, Viscosity, and Surface
	•		on the Splatter of simulated Blood
C80 082-D40-G1	PhysAstr	M Samuel Li	Fortresses Destroyer: Effect of Trebuchet's Arm Length and
	•		Counterweight Mass on Projectile Distance
C84 082-D50-B2	T PhysAstr	<sup>F</sup> / <sub>M</sub> Elizabeth Chen & Ann Zhu & Kyle Fang	Solar Cell Response to Incident Frequencies
C86 082-D60-72		F/ <sub>M</sub> Minhthi Ngyuen & Ji Soo Kim & Gene Castillejo	The Boiling Point Of Water as a Function of Vapor Pressure
C87 082-D70-41	PhysAstr	F Kate Jackson	Sustainable Play: Comparing the Safety of Renewable Alternatives to
	,		Commercial Playground Surface Materials
C88 082-D80-H1	PhysAstr	F Masha Korolik	Refraction of Light: Its Dependence on the Density and Nature of a Solution
C89 082-D90-D1	PhysAstr	M Akhilesh Balasingam	Manhattan Fluidics: On Optimizing Network Geometry by Circuit
	•	<b>G</b>	Analogy for Low-cost 3D-Printed Lab-on-a-Chip Devices
C90 082-E10-31	ElecEng	M Abhinav Nallapa	Fingerprint SmartLock
C91 082-E11-11	ElecEng	M Vikram lyer	A Portable Audio Pointer for Difficult-to-Read Print
C92 082-E12-G1	ElecEng	F Shreya Manivel	A Breath of Fresh Air! : Pivotal role of IOT in Air Quality Monitoring
C93 082-E20-G1	ElecEng	M Srinath Somasundaram	A Novel Design and Evaluation of a Temperature Controlled Smart
	3		Sock with Fuzzy Logic Control
C94 082-E21-E1	ElecEng	M Arnav Garg	Rescuebot, in search for survivors!
C95 082-E30-C1	ElecEng	M Mithil Chakraborty	An Integrated System to Communicate Dangers of Elevated Blood
	3	,	Pressure to Receive Medical Care Using Pulse Sensor
B94 082-E31-92	T ElecEng	M Bruce Nguyen & Daniel Nguyen	Arduino Controlled Youtube Infinity Mirror Play Button
B93 082-E40-81	ElecEng	M Alexander Grindrod	The FitShock
B92 082-E41-61	ElecEng	M Akash Dasgupta	Electrical Fire Prevention Device
B91 082-E50-41	ElecEng	F Devangana Chatterjee	Wearables & Their Innovative Applications in Healthcare, Physical
	3	,	Activity Monitoring and Rehabilitation
B90 082-E51-21	ElecEng	F Molly Waddington	Robo Garden
B89 082-E60-H1	ElecEng	F Katelyn Wong	Making a Solar Hotdog Cooker
B88 082-E61-F1	ElecEng	M Ronith Ganjigunta	Raspberry Pi Garage Door Opener
B87 082-E70-D1	ElecEng	M Bharat Kathi	Optimal Routing Protocols for Multiple Link Failures
B86 082-E71-A2		M Amar Singh & Praneel Singla	The Information Pathways of the Brain
	<u>-</u>	gg	

Loc. Proj. Num. Team Field	Gender Students	Title
B85 082-E80-82 <b>T ElecEng</b>	M Nikhil Chandra & Parthiv Seetharaman	lot Water Leak Alarm: Delivers an email to a connected user
		immediately upon detection of a water leak
B84 082-E81-71 ElecEng	F Nithya Yeluri	The Darkness Behind Blue Light
B81 082-E90-51 <b>ElecEng</b>	M Andrew Chiang	Manipulation of Ultrasonic Force Field
B80 082-E91-31 <b>ElecEng</b>	F Supriya Lall	Gunshot Detector
B79 082-F10-C1 MechEng	F Elise Pham	Bionic Hand
B78 082-F11-A1 MechEng	F Sydney Merritt	MagLev Car
в77 082-F20-81 <b>MechEng</b>	M Srivishnu Pyda	Developing Bio-Composite Materials: Carbon Fiber Reinforced Chitin Matrix
в76 082-F21-61 <b>MechEng</b>		Cozy Pack
в74 082-F31-12 <b>T MechEng</b>		Smart Pill Dispenser
B73 082-F40-G2 T MechEng		A New Reach: Grasp and Lift Based on Muscle Contraction Detection
B72 082-F41-F1 MechEng		VibraGloves
B69 082-F50-C2 T MechEng	F Sakshi Kumar & Nithila Poongovan	Poop Patrol: Simplifying the Interaction Between the Visually
		Impaired and Their Service Dogs
B68 082-F51-B1 MechEng		Sunny-Side Up!
B67 082-F60-91 <b>MechEng</b>		Pain Reliever
в66 082-F61-71 <b>MechEng</b>	M Desmond Miranda	A Serrated Cutting Edge!- The Effect Of Blade Designs on Electricity
		produced by a Wind Turbine
в64 082-F70-42 <b>T MechEng</b>		The Cut and Draw Ruler
B62 082-F71-22 <b>T MechEng</b>		Air Powered Car
B61 082-F80-11 <b>MechEng</b>		RCBot - The Radio Controlled Drawing Robot
A60 082-F81-F2 T MechEng		Making DIY Templates for Tote Bags Out of Old Clothing
A61 082-F90-E1 MechEng		Filtering Electromagnetic Fields on Cellular Devices
A62 082-G10-41 Math	M Christopher Raney	How to Curve a Hockey Puck
A63 082-G30-D1 <b>Math</b>	F Maryam Kazi	Math Checksum - An easy way for verification of arithmetic problems
A64 082-H10-D1 SoftEng	M Josh Sanyal	The Homework Machine: Helps students work smarter, not harder,
		and collaborate with peers, teachers, and parents
A65 082-H11-B1 <b>SoftEng</b>	F Aditi Bharti	KnowYourAntibiotic: A Mobile App To Fight Antibiotic Resistance
A67 082-H12-82 T SoftEng	M Talin Ray & Krish Praseeth & Manas Srivastava	The Design and Construction of a Fitness App to Encourage Children to Exercise
A68 082-H20-82 T SoftEng	M Andy Lee & Kishan Sood	Music Language Modelling: Software that Understands and Composes Music
A69 082-H21-71 <b>SoftEng</b>	M Arvind Ramachandran	Where the Beep are you Going?
A72 082-H22-42 <b>T SoftEng</b>	M Casey Aslan & Aaron O'Brien	Vehicle to Vehicle Communication
A73 082-H30-51 <b>SoftEng</b>	M Akshay Manglik	A mobile software application to educate citizens with accurate, up to
		date, and accessible political information
A74 082-H31-31 <b>SoftEng</b>	F Riteka Murugesh	Baby Alert - Did You Miss Me?
A75 082-H32-11 <b>SoftEng</b>	M Sean Do	Using face recognition software to help people with Alzheimer's
		disease distinguish loved ones from strangers
A76 082-H40-11 <b>SoftEng</b>	M Neeraj Rattehalli	An lot Approach to a Smart Stove
A78 082-H41-F2 <b>T SoftEng</b>	F Kalyani Valiyaveettil & Siri Konanoor	FoodSmart: Know Your Food Better
A79 082-H42-E1 <b>SoftEng</b>	F Sruthi Mikkilineni	SafeNet: Protect children from the dangers of Internet using
		Convolutional Neural Networks

Loc. Proj. Num. Tear	m Field	Gender Students	Title
A80 082-H50-E1	SoftEng	F Nishita Belur	A Tele-Health Smartphone App to Virtually Connect Rural Patients in
			Underdeveloped Countries to Doctors and Hospitals
A81 082-H51-C1	SoftEng	F Janani Sriram	Save Our Water: SOWing the Seeds of Water Conservation
A84 082-H52-A1	SoftEng	M Akshar Sarvesh	Neural Networks for Heart Disease Classification
A85 082-H60-A1	SoftEng	M Siddharth Sharma	Early Detection of Speech and Language related Learning Disabilities using
	_		Natural Language Processing and Deep Learning
A86 082-H61-81	SoftEng	M Rohan Zamvar	Footsteps
A87 082-H62-61	SoftEng	F Khushi Parikh	Creating a Computer Algorithm to Accurately Predict the Next
	_		Season's Influenza Virus Strain
A88 082-H70-52 <b>T</b>	SoftEng	F Avishi Agastwar & Arushi Agastwar	An Innovative Aide to Help Children with Autism Spectrum Disorder
	_		Better Confront Daily Struggles Using Visual Learning
A89 082-H71-41	SoftEng	M Aadit Trivedi	Drive Smart, Drive Safe: Designing an Anti-Collision Vehicular Network
A90 082-H72-21	SoftEng	F Saloni Shah	A Novel Examination of the Effects of Network Topology on Shortest
	_		Path Computation Time
A91 082-H80-21	SoftEng	F Vibha Raju	Analysis of probe attacks on residential Internet connection and
	_	·	finding their geolocation distribution
A92 082-H81-H1	SoftEng	F Shachi Prasad	Mobile Medicine Tracker
A93 082-H90-F1	SoftEng	F Ashwini Suriyaprakash	SCoolPost: A Web App for School Community
A94 082-H91-D1	SoftEng	F Anjali Singh	Formality Analysis of Written Text Using Machine Learning
Y10 091-110-61	BehavSci	M Hrushikesha Athreya	Does changing one's perception of their body temperature effect their
			perception of time?
Y11 091-120-21	BehavSci	M Rohit Tanikella	Relationship Between Self-Efficacy and Cognitive Anxiety on Cognitive Performance
Y12 091-130-F1	BehavSci	M Alex Richardson	Taking notes by hand vs typing and its affects on learning
Y13 091-140-B1	BehavSci	F Alicia Chen	The Effect of Sleep Deprivation on Reaction Time and Focus/Concentration
Y24 091-150-71	BehavSci	F Swapna Panuganty	Effect of different colors on the behavior of bees.
Y25 091-160-31	BehavSci	M Raj Janardhan	The Effect of Music on Brain Competency
Y26 091-170-F2 <b>T</b>	BehavSci	M Atharva Shah & Krish Patel	Effect of Being Observed on Accuracy and Speed at Which a Task is Completed
Y28 091-180-B2 <b>T</b>	BehavSci	M Vittal Thirumalai & Arnav Gattani	Water Usage Meter
Y29 091-210-E2 <b>T</b>	PlantSci	F Aarzu Gupta & Maya Shukla	The Efficacy of Combinations of Plant Based Natural Antibiotics in
			Aiding the Fight Against Superbugs
Y30 091-220-A2 <b>T</b>		F Jacqueline Yang & Prerana Acharyya	Antimicrobial Properties of Various Plant Components
Y40 091-230-62 <b>T</b>		F/ <sub>M</sub> Sana Pandey & Alexander Shing & Anthony Shing	Effect of Fungicides on Mycorrhizal Fungi and Plants
Y41 091-240-31	PlantSci	F Zara Shariff	The Effect of Diluted Bleach on Ice Plants vs. Echeveria
Y43 091-250-F2 <b>T</b>		F Annette Mino & Morgan Irwin	The Effect of Acid Rain on Plant's Pigmentation
Y44 091-260-C1	PlantSci	M Jaeson Pyeon	How does the type of greywater affect the mass of Pisum sativum
			utilizing carbon filters?
Y45 091-270-72 <b>T</b>		M Yingeng Liu & Tianyi Zhang	How does coal smoke affect the growth of barley plants?
Y52 091-280-32 <b>T</b>		F Rithu Paramesh & Amirtha Maria	The Effect of Various Vitamins on the Amount of Algal Oil Produced
Y54 091-290-G2 <b>T</b>		<sup>F</sup> / <sub>M</sub> Catherinez Zhao & Jeffrey Fung	Variations in Salinity and Growth Effects of the Marine Microalga Nannochloropsis
Y55 091-310-71	AnimalSci		Investigating the effect of ocean acidification on Krill.
Y56 091-320-31	AnimalSci	F Stephanie Chang	The impacts of sublethal exposure to clothianidin on multiple honeybee genotypes
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Loc. Proj. Num. Te	am Field G	ender Students	Title
P57 091-330-F2		M Brendan Su & Brandon Yan & Isaac Lo	Modeling Algorithms to Simulate Individual and Colonial Ant Behavior
P56 091-410-G1	BiocheMic	M Varun Kodur	The Effect of Acetic Vapor On Aspergillus Niger Growth On Allium
			Cepa L. Onion Slices
P55 091-411-E1	BiocheMic	F Shloka Janapaty	The Effects of Pseudomonas Putida Bioremediation of Agricultural
			Runoff on Low-density Polyethylene Decomposition rates
P53 091-420-B2	T BiocheMic	F Naviya Kapadia & Anika Tiwari & Anya Gert	Survival of the Fittest: Measuring Different Organisms' Drive to Food
P52 091-421-A1	BiocheMic	F Gurmehr Klair	The Effect of Sucralose on the Growth of Intestinal Flora
P51 091-422-81	BiocheMic	M Tarun Chiruvolu	A Novel Point of Care Device Utilizing a Lateral Flow Immunoassay
P49 091-430-72	T BiocheMic	F Gloria Zhang & Alyssa Huang & Aditi Khanna	The Effect of Caffeine on the Potency of Metabolism-Enhancing
		<i>,</i> ,	Vitamin Supplements
P48 091-431-61	BiocheMic	F Chaelee Park	The Effect of Herbal Extracts in Combination with Metformin in C.
			Elegans Subjected to a High Glucose Environment
P47 091-432-41	BiocheMic	M Siddharth Marathe	The role of Vitamin C in the Catalase/Hydrogen Peroxide Enzymatic
			Kinetics as a potential cure for cancer
P46 091-440-32	T BiocheMic	M Rakesh Nori & Jeffrey Yang	Using a Selection of Air Pollutants to Test their Effect on Collagen
			Matrices and Synthesized Skin
P45 091-441-21	BiocheMic	F Shrena Punj	The effect of pyrantel pamoate on the ASPM-1 gene during
			embryonic development of Caenorhabditis Elegans
P44 091-451-F1	BiocheMic	F Kalie Ching	Hand Moisturizer Bacteria Growth
P42 091-470-91	BiocheMic	M Kalyan Narayanan	The Effect of Varying Levels of Alpha-Antitrypsin on Glutamic Protease Efficacy
P39 091-471-62	T BiocheMic	√ Maanvi Thawani & William Zong	What is the effect of glucose, milk, and antacids on the survival rate
			L. Acidophilus in simulated gastric acid?
P38 091-480-51	BiocheMic	F Athena Fung	Sodium Chloride: An Excitotoxin Triggering Neurodegeneration
			Through An Increased Na+/Ca2+ Influx Into Neuron
P36 091-481-22	T BiocheMic	F Trisha Sengupta & Ishanee Mitra	The Effect of Different Probiotics on the Growth of Baker's Yeast
P35 091-490-11	BiocheMic	F Nikitha Kalahasti	The effect of colored LED light on baker's yeast (Saccharomyces
			cerevisiae) reproduction
P34 091-491-G1	BiocheMic	F Katherine Nasif	Accelerating Hydrocarbon Degradation in Alcanivorax borkumensis
			through the Use of Diffused Oxygen in Its Environment
P33 091-510-72	T BioInfo	F Allison Jia & Jasmine Wiese	Using EEG to Analyze Common High School Distractions While Studying
P32 091-520-41	BioInfo	F Shruti Sridhar	Bridging Vectorcardiography and Computational Genetics: A Novel Approach
			to Noninvasive Early Detection of Heart Disease
P31 091-530-H1	BioInfo	M Chinmay Lalgudi	Investigating methylation to explain gene expression patterns
			between Glioblastoma and Alzheimer's Disease
P30 091-540-D1	BioInfo	M Aditya Behal	A Novel Investigation of MLH1 Gene Missense Mutations via the
		•	Analysis of MLH1 Protein's Primary and Tertiary Structures
P29 091-550-91	BioInfo	F Sriya Jonnakuti	The Patterns of Exon Gene Mutations in Key Diseases in Specific Organs
P28 091-560-51	BioInfo	F Shevali Kadakia	Relationship of Genes and Chronic Pain
P27 091-570-11	BioInfo	F Anjali Ravella	What is the effect of TP53 gene mutations on various types of cancers?
P26 091-610-H1	MedHeaSci	F Ashley Yeh	The Effects of NAD+ on a Drosophila Melanogaster Model of Cognitive Decline.
P23 091-630-82		M Grant Miner & Mihir Sharma	Hand Sanitizers: What chemicals actually contribute to the eradication of germs?
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Loc. Proj. Num. Te	eam Field Ge	nder Students	Title
P22 091-640-51		M Shyl Lamba	What is the effect of caffeine on streptococcus?
P21 091-660-E1	MedHeaSci	M Yash Shroff	Efficacy of Flossing and Brushing in Reducing Plaque and Gingival Inflammation
P20 091-670-A1	MedHeaSci	F Audrey Cui	The Relationship between Resting Cardiac Vagal Tone and Auditory
		·	Cognitive Control
P19 091-680-61		F Divya Nair	The Effect of Heat Treatment on the Porosity and Thickness of Hair
P18 091-710-91	BiomedEng	F Harshita Saha	Dissolving Blood Clots with vibrations in localized areas for people
			diagnosed with thrombosis
P17 091-720-51		M Ashvin Irrinki	Improving the Human Gait for One-Legged Amputees with a Synergetic Prosthesis
P16 091-730-11	BiomedEng	M Arnav Joshi	A novel system for detecting COPD, asthma, and other obstructive
			lung diseases early in low-resource environments
P15 091-740-E1	BiomedEng	F Rashi Ranjan	SmartSplint: Median Nerve Mobility Tracking and Alert with a
			Wearable IMU Device to Prevent Carpal Tunnel Syndrome
P14 091-760-61	BiomedEng	M Raghav Ganesh	Developing a novel, accurate, and rapid machine learning based cell
			classification algorithm to diagnose diseases
P13 091-770-12		F Janvi Shah & Minjeong Kim	Diagnosing Heart, Lung, Blood Disorders Using Machine Learning Models
P12 091-780-F1		F Anusha Ghosh	Automated Treatment of Type 2 Diabetes using Closed Loop Glucose Monitoring
P11 092-A10-31	Chemistry	F Kreena Parikh	The effect of calcium in strengthening the membrane of an edible
			sodium alginate water bottle
P10 092-A20-G1		F Shannon Miranda	An Effective Flame Resistant Household Paint
N11 092-B10-B2	T CheEnvEng	F Eileen Li & Emily Liu	Addressing the Global Landfill Problem: A Novel Automatic Waste
			Sorting Algorithm Based on Machine Learning Methods
N12 092-B30-41		F Mahi Kolla	Distilling and Refining the PARC Hydrodynamic Separator
N14 092-B50-C2	T CheEnvEng	F Natalie Semersky & Kareena Hargunani	The Design and Construction of a Produce Battery to Charge a Phone for
			People Who Do Not Have Access to a Power Outlet.
N15 092-B60-91		M Ashish Rao	Osmotic Pressure and Energy Generation
N18 092-B80-H2	T CheEnvEng	M Rohan Pujare & Adithya Shanker	The Design and construction of a Microbial Fuel Cell to provide
			people in need of a clean energy source to make efficien
N19 092-B90-E1	CheEnvEng	F Vedha Santhosh	The Effect of Using Biodegradable Coagulants on Domestic
			Wastewater Treatment to Promote Water Conservation
N20 092-C10-41		M Richard Hu	The Impact of Solar Plants on Microclimate
N21 092-C20-H1		M Sachin Shah	Testing the Water Cleaning Abilities of Moringa Oleifera
N22 092-C30-D1	EarEnvSci	F Triya Roy	The affect concentrations of pollutants and amount of food source on
			Daphnia's sensitivity to toxins.
N23 092-C40-91	EarEnvSci	F Sanoja Kikkeri	Carbon Sequestration: The Effect of Iron Fertilization of Carbon
			Fixation by Phytoplankton
		F Carolyn Lu & Maddie Huynh & Michelle Kwan	Effects of Runoff Water on Aquatic Plants
N28 092-C60-11		M Srinivas Balagopal	Amending desert soil to reverse desertification
N29 092-C70-E1	EarEnvSci	F Kami Richardson	Ocean Rx: Reducing Pharmaceutical Water Pollution. Utilizing
			organic materials as a novel alternative to nanoparticles.
N30 092-C80-A1	EarEnvSci	F Mia Fong	If Radon Exists in Santa Cruz Mountain Well Water, How Much
			Radon Will Be Present at the House Tap

Loc. Proj. Num. Tea			Title
N31 092-C90-61	EarEnvSci		What's In Our Water?
N32 092-E10-51	ElecEng	M William Xu	How does the humidity in the soil affect the amount of energy
			produced by the bacteria in the Microbial Fuel Cell?
N33 092-E20-11	ElecEng	F Michelle Zhu	A novel, inexpensive, portable, medication and vaccine refrigeration
			device for use in developing countries
N34 092-E30-D2 <b>7</b>	ΓElecEng	M Arjun Akkirjau & Vishnu Jaisim	Smart Al Home Use Robot
N35 092-E40-A1	ElecEng	F Alisha Jayamohan	Enabling Ease And Safety For Deaf Drivers Via An Alerting Device
		*	That Recognizes Road Sounds
N37 092-E50-52 <b>T</b>		F Chap-Lum Lau & Ashley Song	The design and construction of glasses for travelers to read foreign languages
N38 092-E60-12 <b>T</b>		M Siddarth Ramkrishnan & Jayden Sanchez	Medication Memorization
N39 092-E70-F1	ElecEng	F Simrithaa Karunakaran	Safety Step - A Novel Device Using IoT to Provide Safe Navigation
			for the Visually Impaired
N42 092-F10-E1	MechEng	M Bogdan Kovtun	Utilizing Vortex Generating Perforations on Fixed-Wing Aircraft for
			Improving High Angle-of-Attack Performance
N43 092-F11-C1	MechEng	F Isabel Sperandio	A New Solar Panel Design: Producing Electricity Day and Night
			Using Photovoltaic, Seebeck, and Thermal Elements
N44 092-F21-81	MechEng	M Hawk Azordegan	An Easily Adjustable Ramp for the Physically Disabled
N45 092-F30-52 <b>7</b>	Г MechEng	M Shinda Huang & William Huang	The Design and Construction of a Delivery Drone for Delivery
			Services to Deliver Their Sales and/or Belongings
N46 092-F31-41	MechEng	M Nathan Ng	Morphing Nuts
N48 092-F40-12 <b>7</b>	Г MechEng	M Rithwik Kerur & Andrew Wang	The design and construction of a water desalinator for anyone living
			by sea water to desalinate water cheaply
N49 092-F41-H1	MechEng	M Nicholas Rumley	Heat-Sensing Rescue Robot
N50 092-F50-E2 <b>7</b>	Г MechEng	M Timothy Liu & Mark Xin	The design and construction of a pillow that will help transportation
			passengers feel comfortable.
N51 092-F51-D1	MechEng	F Emma Mustovic	Weight For Me
N52 092-F60-A2 <b>7</b>		M Shree Phadke & Sameer Chowdhury	The design and construction of a bike pedal charger for bikers to charge their phones.
N53 092-F61-91	MechEng	M Quang-Dan Tran	Magnetic Shock Absorbers for Machines and Vehicles
N54 092-F70-71	MechEng	M Ansel Austin	3D Printable Shock-Absorbing Surfaces: Comparative Testing of
			Various Auxetic Designs
N55 092-F80-31	MechEng	F Shilpa Rao	Solving the Issue of Lines and Long Waits
N56 092-F90-G1	MechEng	M Jahan Razavi	A Ground Topography Detection System for the Blind
N57 092-G10-61	Math	F Cynthia Chen	Fighting Malnutrition: Automated Optimization of Nutrition Using
			Novel n-Dimensional Linear Programming Models.
M56 092-G20-12 <b>7</b>	Γ Math	F Anne Willner & Isabel Willner	Predicting Futures: The Accuracy of Markov Chains Predicting Stock Market Changes
M55 092-G30-F1	Math	M Rushil Saha	A Novel Approach to Accurately Modeling the Disease Dynamics of
			Ebola using the Discrete Time Markov Chain
M54 092-G40-A2 <b>7</b>		M Suhas Prasad & Raj Palleti	What Factors Determine an Eulerian Polygon? A Computer-Inspired Analysis
M53 092-H10-F1	SoftEng	M Joshua Valluru	Deep learning to predict Socioeconomic Sentiments through Social Media
M52 092-H12-B1	SoftEng	F Letitia Aloysius	Remote Heat Alert System
M51 092-H20-B1	SoftEng	M Mohana Nukala	Digital Grocery - an App to deliver/buy groceries, earn money as a

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Loc. Proj. Num. Te	am Field G	Gende	r Students	Title
				deliverer or save time from shopping in store
M50 092-H21-91	SoftEng		Adishree Ghatare	Assessment of Cognitive Health and Assistance in Daily Life for the Elderly
M49 092-H22-62	T SoftEng	M	Gaurav Bhatnagar & Arav Chheda	Watchdog: Using algorithms, FitBit technology, and Android devices
				to monitor user's biometrics and alert loved ones
M48 092-H30-71	SoftEng		Pranav Kumar	Flood Escape App: An App That Shows the Quickest Route to Safety During a Flood
M47 092-H31-51	SoftEng	M	Rushil Srivastava	Intrix: A novel approach to preventing cyber-bullying, and suicides by
				using Artificial Intelligence and Machine Learning
M46 092-H32-31	SoftEng	М	Tejaswi Vemulapati	Text Prediction Using Character-Level Recurrent Neural Network
M45 092-H40-31	SoftEng	М	Patrick Yu	Never Lost: An App to Keep You On Track
M44 092-H41-11	SoftEng	М	Siddharth Das	A Fast, Efficient Technique for Finding a Path through Multiple Destinations
M43 092-H50-G1	SoftEng	М	Matthew Jin	Drone Navigation with Computer Vision: CNN classifier, SIFT vs.
				SURF, and an effective landing pad finder
M42 092-H51-E1	SoftEng	F	Swati Goel	Truth on the Internet: A Web Extension and Back-End Search
				System to Discover Original Sources
M38 092-H60-B2	T SoftEng	М	Thomas Rainow & Eric Fang	A Traffic Problem: Modeling Congestion on the Freeway
M37 092-H61-A1	SoftEng	М	Matthew Cho	Strategic Decision Making Utilizing Neural Networks Trained with
	J			Optimal Patterns from Reinforcement Learning
M36 092-H70-81	SoftEng	F	Shreya Sinha	Using Artificial Neural Networks to Identify Brain State
M35 092-H71-61	SoftEng		Siddharth Ganesan	The Speech Converter
M34 092-H80-32		М	Rehaan Ahmad & Brian Yang	Machine Learning Based Orchard Management Software to improve
	· ·		· ·	yield and productivity
M33 092-H81-21	SoftEng	F	Talia Syed	Generic Computer- Based Color Analysis of Chemical Reactions
M32 092-H90-G2			Anthony Zhu & Pulkit Singhal	A Machine Learning Algorithm that Detects Facial Expressions
M31 092-H91-F1	SoftEng	F	Medha Kini	Sensoriis
M30 093-410-11	BiocheMic	F	Lakshmi Ramesh	The Effect of Anti Inflammatory Drugs on E. Coli
P43 093-420-E1	BiocheMic	F	Smriti Vaidyanathan	The Effect of Alkaline Soaps on the Skin's Lipid Barrier
M29 093-610-21	MedHeaSci	i F	Ananya Vadlakonda	The Effect of Antioxidants on Dopamine Stability: Exploring the
			•	Association Between Oxidative Stress and Dopamine Defici
M28 093-620-F1	MedHeaSci	і М	Dylan Hwang	Seeing Half the World: An Eye Movement Study
M27 094-E10-71	ElecEng		Suhas Kotha	Piezoelectric Energy Harvester
M26 094-H10-H1	SoftEng	М	Bennett Liu	Fall/Drunk/Abnormal Motion Sensor
M23 094-H30-91	SoftEng		Maya Nayak	Self-Navigating Wheelchair
M22 094-H50-11	SoftEng		Milan Ganai	ShieldMe: Detect and Prevent Coordinated Cyber Attack on Android devices
M21 094-H60-E1	SoftEng		Shivam Verma	Constructing Speaker Verification Software that Allows Only Verified
	· · J			Users to Access a Secured Function
M20 101-110-91	BehavSci	F	Mariapaula Sunzeri Hernandez	Behavioral Modification using Red and Green LED Lights to Train
			,	Planarians with Positive Reinforcement
M19 101-120-51	BehavSci	М	Adarsh Pachori	Influence of a classical instrumental relative to a preferred stimulating
<b>.</b>				instrumental on accuracy and speed in math
M18 101-130-11	BehavSci	F	Valerie Wu	How Do Variations in Educational Technique Affect the Learning Process of
	20.14.00	•		Mandarin Chinese in Elementary-Aged Students?
				Manualin Chinese in Elementary-Aged Students?

Loc. Proj. Num. Tea	am Field G	end	er Students	Title
M16 101-140-D2	T BehavSci	F	Shania Wang & Enya Lu & Ihita Mandal	How Different Music Genres Affect Short-Term Information Retention
				Amongst High Schoolers
M15 101-150-A1	BehavSci	М	Vishnu Palaniappan	The Link Between Sleep Quantity/Quality and Academic
				Performance on a High School Student
M13 101-210-H2			Rosheni Kandaswamy & Nhi Truong	Which of the factors that commonly affect photosynthesis have the greatest effect?
M12 101-220-E1	PlantSci		Philip Raj	The Effect of Compost Tea in Hydroponic Lettuce Growth
M10 101-230-92	T PlantSci	F	Raka Acharya & Anjani Patibandla & Kirti Hargunani	The Effect of Anabaena inaequalis on Salvinia minima to Absorb
				Crude Oil in Freshwater
L10 101-240-61	PlantSci		Lila Walden	The Effect of Light Cycles on Capture Sensitivity of Venus Fly Traps
L12 101-250-12			Thao Le & Alena Do & Baotram Le	What is the effect of different wavelengths of light on the circadian rhythm of a flower?
L13 101-260-F1	PlantSci		Sowmya Kolluru	The Effect of Oxidative Stress on the Germination and Growth of Glycine max Plants
L14 101-310-A1	AnimalSci		Keerthi Pushparaj	The effects of dogs on autistic social interactions
L15 101-320-61	AnimalSci	F	Sanjana Borle	Using Daphnia Magna's Circulatory Behavior to Determine Safety of
				Flavor Enhancers
L16 101-330-12			Roma Kidambi & Annika Bhanot	The Effect of Oxybenzone on the Viability of Zebrafish Embryos
L18 101-340-E2	T AnimalSci	F	Jocelynne Leon & Yomaira Ramirez & Dalila Valenzuela	Examining the behavioral response of redwood ants (Formicarufa) in
				response to weather conditions
L19 101-370-22	T AnimalSci	М	Johnson Nguyen & Derek Bui	The Effect of Yeast Concentration on Fruit Fly (Drosophila
				melanogaster) Attraction to Fruit
L21 101-380-F2	T AnimalSci		Long Tran & Eric Pham	Determining The Effects of Varying Environmental Conditions on a Spider's Web
L22 101-411-G2			Hazel Trinidad & Rebecca Dang	Evolving Bacteria that inhabits moist soil to thrive in dry conditions
L23 101-420-F1	BiocheMic		Anusha Kuppahally	Phytoplankton and the Impacts of Global Warming
L26 101-421-C2	T BiocheMic	F	Angelynn Nguyen & Lily Huynh	Determining the effect of non-thermal microwave radiation on several
				foodborne pathogenic bacteria
L27 101-430-B1	BiocheMic	F	Taylor Lam	Determining the Concentration of Fertilizer Based Nitrogen in Water
				to Cause Overpopulation of Spirulina Major
L28 101-440-71	BiocheMic		Alycia Cary	Increasing Bacterial Halotolerance Using Methods of Natural Selection
L29 101-450-31	BiocheMic	M	Gautham Dasari	The Effect of the Therapeutic Reduction of Alpha-Synucleins on
				Neurodegeneration in Caenorhabditis Elegans
L30 101-460-G1	BiocheMic	М	Kevin Mathew	Studying the Effect of an Overexpressed DLK-1 Gene on
				Neurodegeneration During Exposure to Lead in C. elegans.
L31 101-490-41	BiocheMic	М	Vivek Kamarshi	Effects of Gut Microbiota on Drosophila Models of Parkinson's Disease
L32 101-510-B1	BioInfo	M	Rory Morgan	What are the Effects of Climate Change on the Evolution of a
				Population of Simulated Organisms?
L34 101-511-82	T BioInfo		Vennela Chukka & Anusha Fatehpuria	Deep Learning Approach for Gland Segmentation in Cancerous Tissue Images
L35 101-520-71	BioInfo		Natasha Maniar	An Improved Algorithm to Reduce False Positives of Arrhythmia Detection
L36 101-521-51	BioInfo	F	Prerita Pandya	Effect of smoking on the expression of genes of the innate immune
				system in smokers versus non-smokers
L37 101-530-22	T BioInfo		Katherine Zhang & Katherine Tian	Seizure Prediction Using Deep Learning
L38 101-531-H2	T BioInfo		Aditi Menon & Rohit Menon	Diabetes in the United States in 21st Century: A Statistical Analysis
				of the Social, Behavioral and Ecological Factors

Loc. Proj. Num. Te	am Field G	ender Students	Title
L39 101-540-G1	BioInfo	F Shreya Dasari	Identifying Accurate Reference Genes for DNA Quantification in Cancer Research
L42 101-551-92	T BioInfo	F/ <sub>M</sub> Jaydev Bhateja & Anjali Sadarangani	The Effects of Seasonal Sugar Consumption on Mitochondrial Ca2+Channels in Alzheimer's
L43 101-560-81	BioInfo	M Pranav Atreya	Development of a Neural Network Based High Accuracy Object Detection System for Visually Impaired via Image Processing
L44 101-570-41	BioInfo	M Tarun Amarnath	Using Machine Learning to Diagnose Schizophrenia Based on Multimodal Features from Brain MRI Scans
L45 101-580-H1	BioInfo	M Kaushik Shivakumar	A Machine-Learning Approach to Correlate Environmental and Demographic Factors to Cancer Incidences Across US Counties
L46 101-590-D1	BioInfo	M Jason Dong	Diagnosing Medical-Related Issues by Creating a Machine Learning Algorithm Utilizing Artificial Neural Networks
L47 101-610-31	MedHeaSci	F Hira Ali	The Effect of Valeriana officinalis vs. L-Tyrosine on a Rotenone-Induced Drosophila Model for Parkinson's Disease
L48 101-620-G1	MedHeaSci	F Anushka Tandon	Immune Adapation to a Track & Field Athlete's Active Lifestyle
L49 101-630-C1	MedHeaSci	M Rishi Samarth	The Effect of Antibiotics on In vitro E. coli
L50 101-640-81	MedHeaSci	M Aadithya Anumala	Overexpression of p63 and p73 with E2F1 and pcDNA6/TR in yeast model of Breast Cancer effect on mortality with cisplatin
L51 101-650-41		F Rujuta Sathe	Using PQQ mitochondrial biogenesis as a therapeutic approach towards the treatment for Neurodegenerative Disease (ALS)
L52 101-660-G2	T MedHeaSci	<sup>F</sup> / <sub>M</sub> Mihir Hasan & Prashanthi Rayapati	The Effect of G. lucidum on the Lifespan of C. elegans modeling Duchenne Muscular Dystrophy
L53 101-670-D1	MedHeaSci	F Sandhini Agarwal	Using Computer Technology to Accurately Assess and Diagnose Walking Balance Disorders
L54 101-680-82	T MedHeaSci	M Rishikesh Armstrong & Justin Nguyen	Project Tau: Mitigating Tau Protein Entanglement in White Matter by Inducing Deglycolsylation and Dephosphorylation
L55 101-710-C1	BiomedEng	M Cameron Jones	Intelligent Hearing Aids: Improving Speech Intelligibility and Separation in Noisy Environments through Deep Learning
L56 101-720-81	BiomedEng	M Anish Gupta	Can the structural integrity of a plane be increased by mimicking a beehive?
L57 101-730-41	BiomedEng	M Ryan Mei	A lightweight and soft exoskeletal robotic glove with shape memory alloy actuators to aid hand movement
К57 101-740-Н1	BiomedEng	M Sohil Pokharna	loT enabled Neonatal Incubator for Monitoring and Storage of Vital Data for Predicting Short and Long Term Ailments
K56 101-760-91	BiomedEng	M Rishab Yeddula	DenTap: Novel Application of Machine Learning Algorithms in Detection and Diagnosis of Oral Cancer
K55 101-770-51	BiomedEng	F Ishani Narwankar	Vital VR: Using Virtual Reality To Promote A Calm Mindset
K54 102-A30-F1	Chemistry	M Kevin Yang	Carbon Dioxide Sequestration by Acid Base Neutralization Reactions
K53 102-A40-B1	Chemistry	F Elisa Horta	The Effect of the Combination of Sunscreens and Bug Repellent on their Efficacy
K52 102-A50-71	Chemistry	M Rustam Gandhi	What is the effect of changing the catalyst plated on the anode on the efficiency of the water splitting reaction.
K50 102-A70-F2	T Chemistry	F Alicia Pang & Janelle Wang & Jennifer Tang	Thermodynamic Limitations in the High School Peanut Calorimetry Experiment
K49 102-B10-F1		M Carl Rosenthal	A Gel-Based Combination of Pyriproxyfen and Hydroprene Insect

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Loc. Proj. Num. Team Field	d Ger	nder Students	Title
			Growth Regulators for the Control of Blattella Germanica.
к47 102-в20-A2 <b>T CheEn</b>	vEng I	Anjali Sinha & Regina Ta	Automated Atomizer: Releasing Essential Oils to Control Varroa Mites
к46 102-в40-31 <b>CheEn</b>	vEng I	Sritharini (Esha) Radhakrishnan	Programming for the Efficient Restructuring of a Given Proximity
к45 102-в50-g1 <b>CheEn</b>	vEng /	M Vishal Menon	Efficiency of Insulation Materials
K44 102-B60-B2 <b>T CheEn</b>	vEng <sup>f</sup>	M Aditya Shah & Sanjana Shah	Smart Wildfire Sensor: Automated Fuel Size Detection and Classification using Neural Networks for Prediction of Wildfire
		Sophia Barwegen	The Effect of Wildfire on Sequiadendron giganteum Growth and CO2 Flux
K42 102-C20-31 EarEnv	/Sci I	Visala Tallavarjula	Optimized Root Zone Water Delivery Comparable to a Sub-Surface System Using Low Cost Surface Drip Micro-Irrigation
K39 102-C30-G1 EarEnv	/Sci ľ	M Neeraj Senthil	Salvage That Soil!: Investigating the Potential of Porcellio Scaber as a Biomarker to Monitor and Optimize Soil Health
K38 102-D10-G1 PhysA:	str I	M Avi Patel	Confirming the Coevolution of Supermassive Black Holes & Dark Matter Halos by Analyzing the Structure of Galaxy Bulges
к36 102-D11-D2 <b>T PhysA</b> :		M Daniel Ortiz & Alvin Nguyen & Orlando Mairena	That's Pretty Ice: Under what conditions does dry ice float?
к35 102-D30-72 <b>T PhysA</b> :		M Nitish Reuben & Dan Tran	Resonant Frequency and How it is Affected by Changes in Density
K33 102-D40-32 <b>T PhysA</b>	str ľ	M Eric Yang & Christian Chiong	Analyzing the likelihood and composition of planets orbiting Herbig Ae/Be stars using only low resolution instruments
K31 102-D50-G2 T PhysA:	str l	Trisha Nguyen & Tien Ly & Desiree Khoo	The Emission of the Visible Light Spectrum
K30 102-D60-D1 PhysA	str I	M Vinayak Gajjewar	What is the effect of time on the development of lobate scarps caused by the cooling of Mercury's core?
K28 102-D70-82 T PhysAs	str l	Shruthi Shyam & Alekhya Gurram & Sahithi Madireddy	The Effect of Mass and Shape of an Arrow on the Depth of Penetration into a Target
K27 102-D80-51 PhysAs	str l	M Edward Ross	Got Moisture? Could surface treatments of uninsulated concrete slab
•			foundations eliminate indoor moisture accumulation
к26 102-D90-H2 <b>T PhysA</b>	str f	Jenny Doan & Bhavandeep Kaur	Don't Get Blown Away: How will the velocity of the air blown above the panpipe affect the frequency of sound?
K23 102-E10-81 ElecEn	g ľ	M Shiven Gupta	IoT-Enabled Universal Remote for Entertainment Systems
K22 102-E20-32 T ElecEn		M Maxwell Wang & Sahil Somani	Creation of a Thermoelectric generated CPU Cooler for Desktop PCs to harness waste CPU heat
к21 102-E30-H1 <b>ElecE</b> r	g l	Julie Park	Manipulating Magnets to Improve Generator Output
K20 102-E60-51 <b>ElecEn</b>		M Ashwin Viswesvaran	The Making of a Maker: How I built my 3D Printer
K19 102-F20-D1 MechE		M Avinash Subramanian	Code-Cut: The affordable and accessible laser cutter!
K17 102-F40-42 T MechE		M Elliot van Huijgevoort & Gokul Nair	Improving the Energy Efficiency of the Thermal Desalination Process by
	Ŭ	,.	Implementing a Cogenerative Steam Turbine System
к15 102-F50-H2 <b>T MechE</b>	ng l	Tram Hoang & Tina Nguyen & Yenvy Nguyen	To Stop a Bullet
K14 102-F60-E1 MechE		M Ethan Ngo	Eyes For The Blind
K13 102-F70-A1 MechE		M Caleb Chang	Robotic Arm for the Disabled
K12 102-G10-91 Math		M Kireeti Devarakonda	Developing a Method to Calculate WAR (Wins Above Replacement) for Cricket
K11 102-G30-11 Math	1	M Vinayak Kumar	What is the effect of collegiate experience on a professional
		•	basketball player's performance?
K10 102-H10-11 SoftEn	g l	Alice Martynova	Using Artificial Intelligence to Correct Grammar and Spelling Mistakes
J10 102-H11-G1 SoftEn		M Matthew Park	Energy Conservation Through Timely Sleep Detection with Mobile Devices
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Loc. Proj. Num. Te	eam Field (	Gender Students	Title
J11 102-H12-D2	T SoftEng	M Shashank Mahesh & Siddharth Mahesh	Debate Summarizer: A New Keyword Analysis Algorithm for
			summarization by reduction
J12 102-H20-E1	SoftEng	M Ashwin Reddy	An Experimentation Toolkit for Robotics Control and Manipulation
			Tasks using Deep Reinforcement Learning Algorithms
J13 102-H21-C1	SoftEng	M Marc Bacvanski	Ok City: Unifying Mobile, Cloud, and Al Techniques in a
	_		Crowdsourcing Application for Smart Cities
J14 102-H22-92	T SoftEng	F/ <sub>M</sub> Dean Jones & Sanjana Kantipudi	Virtual Child Link
J15 102-H30-A1	SoftEng	M Johnny Wang	Blockchain Powered Certificate Verification Service
J16 102-H31-81	SoftEng	M Varun Shenoy	Tracking Biomarkers from Classical Medical Monitors using Machine
			Learning for Seven Segment Digit Recognition
J17 102-H32-61	SoftEng	F Shivani Deglurkar	A model that predicts and warns about blood glucose excursions before they occur
J19 102-H40-52	T SoftEng	F/ <sub>M</sub> Daniela Obringer & Robert Daigle	Improved Methods of Teaching Mathematics to Hispanics
J20 102-H41-41	SoftEng	M Kishore Srinivas	SpotFinder: Mobile Application Integrated with Real-time Database
			Technology to Find the Closest Parking Spot
J21 102-H50-21	SoftEng	F Yusra Arub	Smart+Connected Doorbell with real-time coordinated Continuum of
			Care Information - A path to end all homelessness
Ј22 102-Н51-Н1	SoftEng	F Fatima Kazi	Bring 'em home - Help reunite missing children with their loved ones
J23 102-H60-F1	SoftEng	M Ethan Hsiao	Optimized gene drive mosquito injection locations with machine learning techniques
J26 102-H61-D1	SoftEng	M Tejes Srivastava	Autonomous intersection management for driverless vehicle
J27 102-H70-B1	SoftEng	M Ranesh Prasad	Android App for Disaster Management
J28 102-H71-91	SoftEng	M Mokshith Voodarla	Codex AI: A Self-Learning, Self-Improving AI Which Can Write Code
	_		Based on User-Inputted Tasks/Descriptions
J29 102-H80-71	SoftEng	M Kaushik Hariharan	Water Conservation System
X17 102-H81-51	SoftEng	M Mihir Borkar	Finding Optimal Bus Routes Using Graphs
J30 102-H90-31	SoftEng	F Aiushe Mishra	Hologram device program
Ј31 102-Н91-Н2	T SoftEng	M Robert Selwyn & Ayush Gupta	Optimal Stop Placement Strategies for Momentum Trades in Equities
J32 103-110-B1	BehavSci	F Siddhi Shah	The Effect of Glutamine Synthetase 2, a Glial-Specific Gene, on
			Long-Term Memory Formation in Drosophila
J33 103-210-22	T PlantSci	F Jin Tuan & Nandini Sarkar	Effect of Climate Change on Species Distributions in a Desert Ecosystem
J34 103-220-G1	PlantSci	M Amol Singh	The Effects of Varying Ca:Mg Concentrations on the Survival
			Threshold of A. eximia and A. formosa
J35 103-310-C1	AnimalSci	F Srija Gadiraju	The effects of Curcumin (Curcuma longa) on Daphnia magna
			response to oxidative stress.
J36 103-410-41	BiocheMic	F Ysabel Li	Effect of Active Herbicide Ingredients Glyphosate and Glufosinate on
			Neuronal Responses
Ј37 103-420-Н1	BiocheMic	F Nisha Shankar	The testing of stethoscopes to see if bacteria can survive and optimal
			cleaning methods
J38 103-440-91	BiocheMic	F Isha Savant	Effects of Bilberry, Cranberry, and Grapeseed extracts on
			Escherichia coli and Staphylococcus saprophyticus
J42 103-510-C2	T BioInfo	F/ <sub>M</sub> Kiran Rachamallu & Dana Lee	Flooding Vulnerability along the Brahmaputra River in Northeast India
J43 103-520-91	BioInfo	F Nithya Attaluri	Combating Cervical Cancer: Investigating Mechanisms of Host

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Loc.	Proj. Num. Te	am Field	Gend	er Students	Title
					Immune Evasion by Human Papillomaviruses
J44	103-530-51	BioInfo	М	Arian Raje	Pharma.AI: A Novel Approach to QSAR Using Gradient Boosting and
					DNNs in the Prediction of Drug-Target Interactions
J45	103-610-42	T MedHeaS	ci M	Anjay Saklecha & Krish Kapadia	The Use of Salivary Proteins as Novel Biomarkers for Concussion
	103-620-11			Ruhi Sayana	Exploitation of Cell Survival Mechanisms to Induce Apoptosis for
				·	High-Risk Acute Lymphoblastic Leukemia
J47	103-710-E1	BiomedEr	g M	Keval Shah	Smart Bio-Sensor Data Acquisition System
J48	103-740-21	BiomedEr	g M	Shivam Singhal	Developing Different Sensors for Gas Metabolite Detection
J49	103-750-F1	BiomedEr	g M	Phillip Chau	A Novel Method for Quantitative IMU-Based Gait Analysis
J50	104-A10-81	Chemistry	M	Raymond Banke	Identification of Potential Secondary Metabolites in Extracted Cyanobacteria
J51	104-A20-41	Chemistry	М	Charles Huang	Characterization of 2D Molybdenum Disulfide Crystal Growth For
		·			Nano-Optics And the Extension of Moore's Law
J52	104-C10-91	EarEnvSc	i F	Alexandria Sochocki	Effectiveness of a Fabric as a Water Filter
J53	104-D20-E1	PhysAstr	М	Abhijishyo Jana	Using Biomimicry to Enhance Wind Turbine Efficiency
J54	104-D30-A1	PhysAstr	F	Ananya Karthik	Observational Biases in Tests of Gamma Ray Attenuation
J55	104-D40-52	T PhysAstr	М	Yatharth Chhabra & Ashwat Subbaraman	An Instrument to Examine the Maturity of Fruits for Consumption
		,			Purposes Using Chlorophyll Fluorescence
J56	104-F10-21	MechEng	М	Siddharth Jain	Brain Impact Suppresion - Building a Better Helmet
J57	104-F20-F1	MechEng	F	Anika Sanyal	An Inexpensive, Digital Frequency Elimination Device: To Help
		J		•	Autistics and Others with Hearing Sensitivities
H57	111-110-B1	BehavSci	М	Shreyas Chandrashekaran	The Effects of Age on Distracted Driving Reaction Times
Н56	111-130-31	BehavSci		Kamya Venkatesan	Higher Authority's Effect on Decision Making
Н55	111-140-G1	BehavSci	F	Ujjaini Mukhopadhyay	Mindset or Aptitude: What drives the learning ability of high school students?
Н53	111-150-B2	T BehavSci	F	Haiman Wong & Lily Swenson	The Effects of Genetically Modified Foods on Coleomegilla maculata
H52	111-210-31	PlantSci		Anastasiya Grebin	Common crop higher plant growth impairment from human
				•	pharmaceuticals present in surface water.
H51	111-220-G1	PlantSci	F	Isabel Jaffer	Water Stress Effect on Competing C3 and C4 Plants
Н50	111-240-72	T PlantSci	F	Tiffany Huynh & Theresa Nguyen	Magnetism and Plant Growth
H49	111-250-41	PlantSci	F	Vivian Le	How do the different chemical components of fertilizer change the
					speed of plant growth?
H48	111-270-D1	PlantSci	М	Harrison Huynh	What is the effect of water solute concentration and pressure on scallion growth?
Н47	111-280-91	PlantSci	М	Thai Quach	Can chloroplast survive outside plant cells and perform
					photosynthesis at human skin cell temperatures?
Н46	111-310-C1	AnimalSci	F	Daria Syskine	Non-social Butterflies: Effects of Social Learning on Flower Foraging
				•	in the nonsocial Cabbage Butterfly (Pieris rapae)
H45	111-311-A1	AnimalSci	F	Thao Pham	Adaptation and Changes in Reproduction of Artemia in Response to
					Changes in Water Salinity
H44	111-320-81	AnimalSci	F	Tuong Tran	Modeling the Effects of Monosodium Glutamate on Geotaxis, Life
				- -	Expectancy, Pulse Rate Using Drosophila melanogaster
H43	111-321-52	T AnimalSci	М	Zayn Cochinwala & Anshul Ratnaparkhi	Nanosilver's Toxicity
H42	111-330-41	AnimalSci		Gwendolyn Erdosh	Anti-parasitic Effects of Milkweed Species on Monarch Butterflies
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Loc. Proj. N	lum. Tear	n Field	Geno	ler Students	Title
					Infected with Ophryocystis elektroscirrha
н39 111-33	31-21	AnimalSci	F	Gina Yang	Investigating Colony Collapse Disorder: Synergistic Effects of In-hive
					Miticides on the Health of Honeybees A. mellifera
H38 111-34	40-H1	AnimalSci	F	Erin Kiuttu	Effects of Synthetic Turf Runoff and Surface Water on Dugesia dorotocephala
H37 111-3	50-D1	AnimalSci	F	Priscilla Siow	Effects of Dietary Constraints on the Longevity of Caenorhabditis elegans
H36 111-36	60-91	AnimalSci	F	Lauren Santoro	The Effects of Tatoo Ink on the Development of the Flesh Fly Sarcophaga bullata
Н35 111-38	80-11	AnimalSci	M	Vijay Bharadwaj	Analyzing the effects of polystyrene microplastics on ocean primary
					consumers and phytoplankton
H34 111-39	90-E1	AnimalSci	F	Joanna Lin	Altering the Circadian Rhythms of Cockroaches Based on Feeding
Н33 111-43	10-41	BiocheMic	: M	Manav Shah	Redefining Patient-Specific Tumor Neo-Antigen Detection: Using
					Bacterial Quorum Sensing as a Lung Cancer Biomarker
H32 111-42	20-Н1	BiocheMic	; F	Charlotta Lebedenko	Evaluating the effects of non-caloric artificial sweeteners on human
					gut microbiota to prevent glucose intolerance
H31 111-43	30-D1	BiocheMic	: M	Alexander Vu	The Effect of Probiotic Bacteria on the Passage of Allergens through
					the Intestinal Epithelium
H30 111-43	31-B1	BiocheMic	; F	Cindy Nguyen	Competition between E.coli and Bacillus subtilis with the introduction of metals
H29 111-43	32-91	BiocheMic		Ken Hinh	What is the effect of the guanine and cytosine content on DNA
					covalent bond thermal stability?
H27 111-4	40-82 <b>T</b>	BiocheMic	; F	Divya Empranthiri & Labonita Ghose	Blocking the Uptake of Mutated Superoxide Dismutase 1 into Spinal Neurons
H26 111-4	41-62 <b>T</b>	BiocheMic		Samantha Lu & Khiem Nguyen	The effects of antioxidants on Artemia (brine shrimp)
H22 111-4	42-42 <b>T</b>	BiocheMic	: M	Martin Nguyen & Darryl Cereno & Bradley Huynh	The Feast of Yeast
H21 111-4	50-42 <b>T</b>	BiocheMic		Zachary Shah & Michelle Tang	Hormonal Regulation of Hexosaminidase: Implications for Tay Sachs Disease
H19 111-4	51-22 <b>T</b>	BiocheMic		Vicky Nguyen & Soniya Dhar	Instrumental sound frequencies as told by bacteria
H18 111-46	60-н2 <b>Т</b>	BiocheMic		Sophia Patterson & Amar Kothary	Effects of Pharmacological Agents on the Nonamyloidogenic
				•	Processing of the Beta-amyloid Precursor Protein
H17 111-46	61-F2 <b>T</b>	BiocheMic	; F	Roseann Phan & Vy Truong	The Effect of UV Light on Different Strains of Bacteria
H16 111-46	62-E1	BiocheMic		Stephanie Le	Testing Antibiotic Resistance of Staphylococcus Epidermidis
H15 111-4	70-E1	BiocheMic		Handong (Harry) Wang	Discovering The Effect Of Prebiotics On Aging In C. elegans With A
					Simulated Microbiome
H13 111-4	71-в2 <b>Т</b>	BiocheMic	; F	Anagha Thiagarajan & Nikita Patel & Ruby Lunde	Optimal Range of Conditions for Artificial Bacterial Transformation
H12 111-4	72-A1	BiocheMic		Duc Le	Could Bacterial Bioluminescence Replace the Electric Light Bulb?
H11 111-48	81-81	BiocheMic	: M	Santosh Sivakumar	Effect of fat on the growth of E. Coli
H10 111-48	82-61	BiocheMic	; F	Brianna Rivera	Effect of temperature on diffusion through the yeast membrane
G11 111-49	91-32 <b>T</b>	BiocheMic	: M	Karan Sharma & Loren Chang & Vikas Srinivasa	Effect of different quantities of sodium hexametaphosphate on
				Č	ampicillin resistance in E coli
G12 111-51	10-D1	BioInfo	F	Magdalena Mendoza	Comparative Analysis of Methods in Hair Evidence Examination
G14 111-52	20-91	BioInfo		Caitlin Huang	An Attribute and Instance Weighted Naive Bayes Algorithm that uses
					Medical Knowledge for Heart Disease Detection
G15 111-52	21-71	BioInfo	М	Adrian Chu	Use Natural Language Processing and Machine Learning to Analyze
					Linguistic Resonance among Socioeconomic Demographics
G16 111-52	22-51	BioInfo	M	Vinay Senthil	A Three Dimensional Modeling and Real Time Data Analysis
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Loc. Proj. Num. 7	Team Field	Gend	er Students	Title
				Algorithm for Bronchoscopy Enhancement
G17 111-530-51	BioInfo	М	Faraz Murshed	Modelling the Effect of Environmental Conditions on the Presence of
				West Nile Virus in California Using Machine Learning
G18 111-531-31	BioInfo	F	Mythri Ambatipudi	Combating Neurovirulence of ZIKA and Flavivirus Epidemics Using In
				Silico Phylogenetic Analysis and RNAi Gene Silencing
G19 111-541-G1	BioInfo	М	Sameer Varma	Of Fish and Men: Similarities and Differences in Genetic Sequences
				between Vertebrates
G20 111-542-E1	BioInfo	F	Lan-Anh Tran	Modeling Antibiotic Resistance Transmission in Populations Under
				Realistic Environmental Stresses
G21 111-550-E1	BioInfo	М	Min Hoo Lee	Leveraging Deep Learning to Derive De Novo Epigenetic
				Mechanisms Accounting for Missing Heritability in Type II Diabetes
G22 111-551-C1	BioInfo	F	Ishana Deb	Why is the pruning of Purkinje cell and Climbing Fiber synapses in
				the Cerebellum, impaired in autistic children?
G23 111-552-A1	BioInfo	М	Brandy Nguyen	Drug Repurposing
G27 111-560-92	T BioInfo		Akhil Arun & Sahana Srinivasan	A Machine Learning Based Approach to Skin Lesion Segmentation using Superpixels
G28 111-561-72	T BioInfo	F	Geeta Shankar & Allison Yih	A computer simulation to investigate the change of allele frequencies
				of Sickle Cell Disease based on biogeography
G30 111-570-52	T BioInfo	F	Jacqueline Gao & Julia Huang & Ashley Jiang	An integrative genomics approach to identify genetic networks
			, , , ,	influenced by the Zika virus
G31 111-580-21	BioInfo	F	Jacqueline He	Machine Learning Detection and Classification of Colorectal Polyps
G32 111-581-H1	BioInfo	F	Claire Zhang	Artificial Neural Network-based Prediction of sgRNA Activity for
			-	Generating Knockouts with CRISPR/Cas9 Gene Editing
G33 111-590-F1	BioInfo	F	Emily Chen	Analyzing medicinal relations between acetylcholine and cardiac muscarinic receptors
G34 111-591-C2	T BioInfo	М	Sahas Dendukuri & Hari Senthilkumar	A Novel Machine Learning Algorithm for the Detection of Myocardial
				Infarctions Using ECG Data
G35 111-610-51	MedHeaSo	ci F	Emma Brezoczky	A study of cadmium neurodegenerative effect on Caenorhabditis
			•	elegans in relation to Parkinson's disease.
G36 111-620-11	MedHeaSo	ci F	Serena Yoo	Investigating the Effects of Alcohol on the Neuro-Immune Axis through C. Elegans
G37 111-630-E1	MedHeaSo	ci F	Grace Qing	The Effect of Nicotinic Acid on Alpha-synuclein Protein Aggregations
			-	and Movement in a C. Elegans Model of Parkinson's
G38 111-640-A1	MedHeaSo	ci F	Catherine Beaudin	Biocompatible Microdroplets: A Paradigm Shift in the Reversal of Atherosclerosis
G39 111-650-61	MedHeaSo	ci M	Huy Nguyen	Second-hand smoking might be more harmful than direct smoking.
G42 111-670-F1	MedHeaSo	ci M	Brian Nhieu	Shortcut to Salvation: Treating E-Coli Infection Using a Repurposed Drug
G43 111-680-B1	MedHeaSo	ci M	Sahith Narala	Mutational differences in the genomes of Seneca Valley Virus and
				other Picornaviridae that allow entrance to lung cells
G45 111-710-D2	T BiomedEn	g F	Aditi Gnanasekar & Sydney Ty	Pumping Up Security: Using Encryption and 2 FA to Secure
				Connected Medical Devices
G46 111-711-C1			Shree Mukilan Pari	Multi-Athlete Heart Rate Monitor
G47 111-720-A1			Srinidhi Balaraman	A Novel Test to Detect Cortisol In Sweat to Enable Detection in a Wearable Device
G48 111-721-81	BiomedEn	g M	Advith Gopinath	The Voice of Alzheimer's: Wearable Technology Coupled with
				Machine Learning to Track Alzheimer's Disease Progression

Loc. Proj. Num. Team Field Gender Students	Title
G49 111-740-21 BiomedEng F Ankita Kumar	Measurement of Glucose Concentration Using Optical Rotation
G50 111-760-A2 T BiomedEng F Saumya Nimmagadda & Jessica Peng	Knee Brace with Sensor Based Controllers Approach to Prediction of ACL Tear
G52 111-780-22 <b>T BiomedEng M</b> Kumaran Akilan & Sriharsha Guduguntla & Archishman Sravankumar	Rehabilitation of Episodic Memory of Alzheimer's Patients via BCI utilizing EEG signal processing & Sensory Substitution
G53 111-790-G1 BiomedEng F Catherine Huang	Adaptive glasses preventing myopia and correcting presbyopia
G54 112-A11-61 Chemistry F Jeanette Luu	The Effect of Smog on the Rate of Decomposition of Wood
G55 112-A20-32 T Chemistry F Thao Ngoc Nguyen & Emily Lenh	Molecular Gastronomy: The Science of Spherification
G57 112-A21-12 T Chemistry M Tian Chen & Frederick Nitta	Density Functional Theory Study of Fe, Co, Ni, and Pt Embedded Graphene
F57 112-A30-H1 Chemistry M Anh Tran	Determining the Role of Nickel on TiO2 in Photocatalytic Glucose Reforming
F56 112-A31-F1 Chemistry F Labanya Mukhopadhyay	Predicting the Efficiency of Chaotic Mixing of Granular Pharmaceutical Materials Using Image Processing
F55 112-A40-D1 Chemistry F Emily Py	What is the effect of makeup on different moisturizers, primers, and oils?
F54 112-A50-91 Chemistry F Nasrin Rohim	What is the effect of temperature on the brightness and duration of
	chemiluminescence?
F53 112-A60-51 Chemistry F Tiffany Ha	What is the effect on the level of fluorescence when riboflavin is
	reacted with different acids?
F52 112-A70-11 Chemistry F Chau Luu	What effect does the temperature during the roasting process have
	on the caffeine content in coffee beans?
F51 112-A90-A1 Chemistry M Anthony Pham	What are the effects of different acids on the conductivity, current, and voltage of a penny battery?
F50 112-B10-H1 CheEnvEng M Pranav Muthuraman	"Why So Salty?" An Energy Efficient Method for Desalination of Water Using Microbial Fuel Cells
F49 112-B11-F1 CheEnvEng F Kimberly Zhu	An Efficient Waste Segregation System through Computer Vision
F48 112-B20-D1 CheEnvEng F Cassandra Melax	Heavy Metal Remediation in Soil Through a Combination of Electroactive Bacteria, Microbial Fuel Cells, and L. Minor
F47 112-B21-B1 CheEnvEng M Niviru Wijayaratne	Water conserving irrigation apparatus for small and large scale horticulture
F46 112-B30-91 CheEnvEng F Olivia Briones	An Ecological Approach to Oil Spill Clean Up: Modifying Plant Fibers to Absorb Oil
F45 112-B31-62 T CheEnvEng F Thisha Thiagarajan & Aakriti Singh	Filtering Lead From Water Using Reverse Osmosis
F44 112-B40-51 CheEnvEng F Paige Fronczak	A Study of Optimal Conditions for the Photochemical Degradation of
	Phenanthrene, a model Polycyclic Aromatic Hydrocarbon
F43 112-B60-D2 T CheEnvEng M Kevin Tran & Victoria Doan	Elimination by Purification
F42 112-B70-A1 CheEnvEng F Kim Nguyen	The Effects of Metals, Cation Complexation, and Reduced Pressure
\$ 5,	on the Process of Solar Desalination
F39 112-B80-61 CheEnvEng M Cleon Doan	What is the effect of humidity on solar power?
F38 112-C10-91 EarEnvSci F Alyssa Ungerer	Copper Poisoning in Freshwater: The Effect of Copper on Zebrafish
F36 112-C30-H2 T EarEnvSci M Ethan Jean & Johnson Ku	Water quality in Silicon Valley
F35 112-C40-E1 EarEnvSci F Sapna Desai	The Impact of Ocean Acidity on Shells
F34 112-C50-92 T EarEnvSci F Yuhsin Huang & Rhee Kang	Degradation of Polyurethane depending on Aspergillus Niger Grown in Different Broths
F32 112-C60-52 T EarEnvSci M Rishabh Rajesh & Jeffrey Huynh & Alvin Zou	Naturally Fire Retardant-How do Ashes Improve the Fire Retardant Properties of Balsa wood?

Loc. Proj. Num. Team Fiel	d Gender Students	Title
F31 112-C70-12 <b>T EarEn</b>		You Can't Stop the Motion of the Ocean
F30 112-D10-11 PhysA	str F Sarah Cliff	Testing Trends of Work Functions in Metals
F29 112-D11-G1 PhysA	str M Benjamin Lau	Heat to Electricity
F27 112-D20-D2 <b>T PhysA</b>	str M Vikram Miryala & Justin Hu	Degradation/Oxidation Susceptibility of Organic Photovoltaic Cells in
•	,	Aqueous Solutions and Air
F26 112-D21-C1 PhysA	str M Edward Vertin	Distance to a Cepheid Variable Star
F23 112-D30-A1 PhysA	str M Benjamin Dinh	Effect of Solar Panel Inclination on Power Output
F22 112-D31-72 <b>T PhysA</b>	str M Harumi Hokari & Jeswin Joshy	LaZer Light
F21 112-D40-61 PhysA		Construction of a Relatively Low Cost Handmade Telescope System
F20 112-D41-32 <b>T PhysA</b>	str F/M Elizabeth Huang & Dillon Le	The Kinematics of a Gun Shot Underwater
F19 112-D50-21 PhysA	str F Taylor Pawlik	How the shapes of parachutes affect terminal velocity
F17 112-D61-C2 <b>T PhysA</b>	str F Marilyn Nguyen & Madison Li & Khiem Vu	How Temperature Affects the Strength of Magnets
F16 112-D70-B1 PhysA	str M Terry Nguyen	What is the effect of liquid viscosity and density on energy production?
F14 112-D71-82 <b>T PhysA</b>	str F/ <sub>M</sub> Pratyusha Macherla & Zubair Lakhia & Kathleen Nguyen	This Field Is Affecting That Flow!
F13 112-D80-71 PhysA	str F Theodora Worledge	The role of spontaneous symmetry breaking in the initial formation of ski moguls
F12 112-D90-31 PhysA	str M David Lipman	Algorithmic search of the Automated Planet Finder spectra to identify
		extraterrestrial laser signals
F11 112-E10-A1 <b>ElecEr</b>	ng M Shomil Jain	ACE: Assistive Crosswalk Engagement through Dedicated Short-Range
		Communication (DSRC) between Vehicles and Pedestrians
E10 112-E11-72 <b>T ElecEr</b>	ng M Leighton Pu & Francis Indaheng	Electrochromic Film Strip Windshield
E11 112-E20-61 <b>ElecEr</b>	ng M Daryan Qawami	Analog Computer Memory
E12 112-E30-21 <b>ElecEr</b>	ng M Neeraj Aggarwal	Designing and Developing a Smart Mirror to Increase Productivity
		within the Internet of Things
E13 112-E40-F1 <b>ElecEr</b>	ng M Jonathan Li	Fabricating a modified dye-sensitized solar cell (DSSC) using a novel
		fast-ion conduction electrolyte layer
E15 112-E50-A2 <b>T ElecEr</b>	ng F/M Alexis Thammasouk & Adley Wong & Callahan Boronkay	Compact Anti-Theft Alarm
E16 112-E60-62 <b>T ElecE</b> r		Pencil Lead Conductivity
E17 112-E80-G1 <b>ElecEr</b>	ng F Nikita Goyal	HappiNec
E18 112-E90-C1 <b>ElecEr</b>	ng M Atul Raghunathan	Six Degree Positioning Based on Laser Plane Projection and Inertial Navigation.
E19 112-F10-21 <b>MechE</b>		Automated targeting and firing of Multirotor Disabling Technology
E20 112-F11-H1 <b>MechE</b>	<u> </u>	Numerical Simulation of a Rotational Detonation Engine using Ideal Axial Injection
E21 112-F20-F1 <b>MechE</b>	ing M Scott Bout	The Bi-Directional Flying Wing: A Radical New Design For Maximum
		Inflight Efficiency
E22 112-F30-B1 <b>MechE</b>		Using Nitinol as a Concussion Indicator in Football Helmets
E23 112-F31-91 <b>MechE</b>	ing M Mihir Arya	A novel approach to reducing the parasitic and induced drag on an
		airfoil by enhancing the movement of a wingtip.
E26 112-F40-62 <b>T MechE</b>		Laser-based Microscope
E28 112-F41-42 T MechE	ng M Abhinav Nimbalkar & Ryan Miranda & Brian Lin	City Maintenance Drone: A Novel Method of Addressing Threat
		Detection and Air Pollution With Image Analysis and IOT
E30 112-F50-22 <b>T MechE</b>		Spray Paint Can Nozzle that reduce the air flowing paint particles
E31 112-F51-11 <b>MechE</b>	ng M Quang-Long Tran	Using magnets to reduce vibration in machinery

Loc. Proj. Num. Team Field Gender Students Title	
E32 112-F60-F2 T MechEng F Rachel Jacobson & Gillian Pereira Tablet Stand for People With Disabilities	
E34 112-F61-D2 T MechEng M Vikram Shirsat & Vishnu Srinivasan & Michael Chen Improvements on Existing Sound Based Echolocation	n Techniques
E35 112-F70-C1 MechEng F Pauline Tran Analysis of Crack Formation in a Pseudo-Concrete Conglo	omerate Mixture
E36 112-F80-81 MechEng F Hoang-Truc Nguyen On the move	
E37 112-F90-32 T MechEng M Darren Heck & Yuuki Okazaki Water bottle flipping trebuchet	
E39 112-G20-71 Math F Sohini Kar Factorization of Recurrence Relations	
E42 112-H10-31 SoftEng M Shaya Zarkesh A Novel Approach to Semantic Parsing of Ma	thematical Word
Problems with Neural Networks	
E44 112-H12-F2 T SoftEng F Abirami Patchaiyappan & Urmi Lalchandani Creating an Audio Reality for the Visually Impaired	
E45 112-H13-E1 SoftEng M Shadaj Laddad Direct Control of Autonomous Mobile Robots via Deep Reinforcer	
E46 112-H20-G1 SoftEng F Karena Kong Traffic Network Management: Novel Appro	ach Using a
Deep-Learning System Driven by Dynamic Data	
E47 112-H21-E1 SoftEng F Nomita Chandra Efficient Binary Search Technique for Tumor Isolatio	
E48 112-H22-C1 SoftEng F Michelle Li Development and Efficacy Analysis of Machine Lea	
Applied to the Diagnosis of Alzheimer's and Parkinson	
E49 112-H23-A1 SoftEng M Tejasvi Kothapalli Analyzing Usage Patterns of Wi-Fi Enabled D	
Machine Learning to Reduce Household Energy Cor	nsumption
E50 112-H30-C1 SoftEng F Turan Nguyen Password Security	
E51 112-H31-A1 SoftEng M Arjun Subramonian Voice Alert: A Secure Automated Voice-Based Emergency	/ Contact System
E52 112-H32-81 SoftEng F Katherine Ho On Convergence of PageRank Computations	
E53 112-H33-52 T SoftEng M Vikranth Srivatsa & Aubhro Sengupta A Novel Approach to Detecting Vitamin Deficiency	
E54 112-H40-81 SoftEng F Nikhita Shanker One Size Fits All: A Novel Approach to Making R	ecommendations
Using Collaborative Filtering	
E56 112-H42-41 SoftEng F Samantha Au Utilizing computer embedded vision to track hu	uman hand and
interactively map acupressure points for self-treatme	
E57 112-H43-21 SoftEng M Kris Satya Prediction of Heart Attacks with a Neural Network Al	
D57 112-H50-32 T SoftEng F Prachi Bhagavatha & Jasmine Ngo Obstacle and Pavement Detection Computing R	ealtime Distance
Using Optical Flow Algorithms for the Visually-Impair	
D56 112-H51-21 SoftEng M Mark Shacker Motion Tracking and Homing Apparatus for Stationa	ry Targets in Civil
or Military Applications	
D54 112-H52-G2 T SoftEng M Alex Gao & Kevin Frans Coordinated Multi-Agent Control Utilizing Deep Reinforcen	
D53 112-H53-F1 SoftEng F Isa Dash Improving Prognosis of Melanoma with Bio-marker	Imaging Through
an SVM Algorithm	
D52 112-H60-H1 SoftEng M Avik Jain A Novel Machine Learning Approach to Cor	ntinuous Identity
Verification through Keystroke Biometrics	
D51 112-H61-E2 T SoftEng M Eric Zhang & Nicholas Liu Voice Control for Electronic Wheelchairs	
D50 112-H62-C2 T SoftEng F Hrishika Basava & Shivani Parekh Proximity Based Steering Wheel Prototype to Prevent Dist	racted Driving
D48 112-H63-A2 T SoftEng M Aaron Lopes & Michael Wan & Nathan Ang Stock Price Prediction Using Mathematical Modeling & Ma	chine Learning
D47 112-H70-D1 SoftEng M Jasper Huang A Novel Machine Learning Framework Integration	rating Statistical
Features for Auditory Gait Recognition as a Unique I	
D45 112-H71-A2 T SoftEng M Avinash Jain & Nikhil Ajjarapu A Machine Learning Algorithm for Classification of Medical Problem	ems through SMS

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D44 112-H72-91	SoftEng	M Andrew Lyle	Calculating Pi
D43 112-H73-71	SoftEng	M Tommy Heng	Genome Sequence Generator and Partitioner
D39 112-H80-82	T SoftEng	M Lam Tran & Edward Rinaldo & Justin Huynh	ROBOT CAR
D38 112-H81-71	SoftEng	F Aratrika Ghatak	Developing a Predictive Model for On-Campus Crime using Machine
			Learning Algorithms and Reporting via Mobile App.
D37 112-H82-51	SoftEng	M Kevin Hsu	Developing a Response Surface Model to Visualize the Machine
			Learning Process of a Neural Network
С30 112-Н83-31	SoftEng	M Aayush Gupta	A Better Uber: Reinforcement Learning Pricing to Help Users in the
	_		On-demand Economy
D36 112-H90-51	SoftEng	M Ryan Lee	A self-contained file Encryptor based on the Arduino platform
D35 112-H91-22	T SoftEng	M Adiyan Kaul & Sohan Vichare	Thor: A Disaster Prediction and Relief System using Autonomous
	_	·	Drones, Computer Vision, and Artificial Intelligence
D34 112-H92-11	SoftEng	M Shiv Ansal	Emotional Recognition Analysis using Facial Expressions and Cues
D33 113-110-C2	T BehavSci	√F/M Anika Banga & Ronit Dey	What are the Effects of Short-term Media Intervention on Beliefs
		·	About Women in STEM?
D32 113-120-91	BehavSci	M Michael Kwan	Analysis of the Japanese Liquid Geminate Consonant
D31 113-130-51	BehavSci	F Millie Lin	The Prevalence of Parent-Teacher Interactions and their Influence on
			Student Outcomes in Developing Countries
D30 113-140-11	BehavSci	F Myra Cheng	Understanding Arithmetic Learning in Young Children through a
			Novel Computational Model of Number Representation
D29 113-220-11	PlantSci	F Anika Ramachandran	Determining the Trade-off Between Plant Growth and Defense for Brassica Rapa
D28 113-310-E1	AnimalSci	F Estelle Yoo	Reduction of Fat Accumulation in Caenorhabditis Elegans by 3,3 Diindolylmethane
D27 113-320-A1	AnimalSci	F Dipashreya Sur	Geospatial Analysis of Grey Wolf Movement Patterns
D26 113-330-61	AnimalSci	F Kelly Ho	Role of Olfactory Cues in the Detection of California Mussels by the
			Nucella Emarginata
D22 113-410-52	T BiocheMic	<sup>F</sup> / <sub>M</sub> Divija Bhimaraju & Neelesh Ramachandran	Determining the Effect of the Age of the Environment on the
			Incidence of Cellular Senescence
D21 113-420-21	BiocheMic	M Eric Jeong	Dissecting Interactions Between Regulators of the Quorum
			Response in Bacillus subtilis
D20 113-510-F1	BioInfo	M Rajiv Movva	Machine Learning-Based Discovery of Synergistic Drug
			Combinations for Rapid and Effective Cancer Treatment
D19 113-511-D1	BioInfo	M Bryan Chiang	Glioblastoma Multiforme Segmentation through Hierarchical Neural Networks
D18 113-520-B1	BioInfo	M Sushant Thyagaraj	The Development of a Computational Pipeline For The Identification
			of Prostate Cancer Aggressiveness Using Deep-CNN
D17 113-521-91	BioInfo	M Ashwin Nathan	Analyzing Glut4 Expression and RNA-Sequencing Data to
			Understand the Relationship Between Type 2 Diabetes and HD
D16 113-531-51	BioInfo	M Advait Patil	An information-theoretic approach for Bayesian assignment of
			biomolecule models to EM images
D15 113-540-31	BioInfo	F Anooshree Sengupta	A Multifaceted, Genetic-Based Drug Repositioning Study Across
			Several Disease Types
D14 113-550-G1	BioInfo	F Eesha Gholap	Analysis of the machine assisted scorings of immunohistochemistry

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					protein expression in tissue cancer
D13	113-570-81	BioInfo	F	Gaeun Kim	Assessing treatment response in colorectal cancer patients through
					novel volumetric contrast-enhanced ultrasound methods
D12	113-580-41	BioInfo	F	Melissa Wei	Identifying therapeutic targets for joint specific rheumatoid arthritis
					using Bayesian network models
D11	113-590-Н1	BioInfo	F	Susan Zhou	The Impact of Tertiary Lymphoid Structures on Tumor-Immune Response
D10	113-610-71	MedHeaSci	F	Rachel New	The Impact Common Pharmeceuticals have on the Oxidative Stress
					Levels of Drosophila Melanogaster
C10	113-611-51	MedHeaSci	F	Isha Mehrotra	Identifying novel prion-like proteins from SNT1+ Human Homologs in
					Saccharomyces cerevisiae
C11	113-630-G1	MedHeaSci	М	Jimmy Lin	Automated Breast Cancer Diagnosis: A Novel Assessment of
				•	Tumor-Associated Stroma Using Deep Learning Algorithms
C12	113-680-D1	MedHeaSci	М	Karthik Ramachandran	Breaking Down Barriers: Using RNAi on ABC Transporter Genes to
					Determine Role in Organism Survival and Toxin Resistance
C13	113-710-G1	BiomedEng	F	Ashmita Rajkumar	MedHack: The Impact of Malware Attack upon Biomedical Devices
C14	113-720-C1			Anna Vardapetyan	"DNA Chemofilter: Novel method to prevent chemotherapeutic toxicity."
C15	113-730-81			Rohan Mehrotra	A Novel Nanoscale Approach to Combat Disease: Electrically-stimulated
		J			Drug Release from Biodegradable PCL Nanoparticles
C16	113-740-41	BiomedEna	F	Mythili Bhethanabotla	Automated Classification of Rhabdomyosarcoma Tumors:A Novel
		3		,	Method to Determine Appropriate Therapy
C17	114-A10-A1	Chemistry	F	Sophia Sydir	T-shirts-The New Fuel?
	114-B10-21			Sachin Narayan	The Design and Construction of an Underwater Oil Cleanup Device
		3		,	for Platforms and Ships to Contain Oil Plumes
C19	114-D10-31	PhysAstr	М	Jerry Chen	Modeling the Internal Rotation and Dispersion of Distant Galaxies (z
		,			~ 1.0) Using Multi-PA Keck DEIMOS Slit Spectra
C20	114-E10-C1	ElecEng	F	Tithi Mandal	Effects of Cross Talk and How to Eliminate it in High Speed Communication
	114-E20-72			Gautham Reddy Gujjula & Yash Tandon	Demystifying Electromagnetic Coupling Within Antenna Arrays
	114-F10-41	MechEng		Rohan Dhesikan	Fabrication and Manipulation of Magnet Micro Robots for Complex
		3			Engineering Applications
C23	114-H10-51	SoftEng	F	Amy Dunphy	Ditch the Keyboard: A Novel Touchless Input Scheme
	114-H20-11	SoftEng		Amy Jin	Deep learning-based automated tool detection and analysis of
		3		,	surgical videos to assess operative skill
C27	114-H30-E1	SoftEng	М	Utkarsh Tandon	OneRing: An Intelligent Wearable Ring for Automated Parkinson's
					Diagnostics through ML-based Random Forest Ensembles
C28	114-H40-A1	SoftEng	F	Holly Jackson	Unlocking History: An Algorithm to Virtually Unfold 3D Computed
		•••• <u>•</u> •••		. reny caches.	Tomography Scans of Unopened Historical Documents
C29	114-Н60-12	□ SoftEng	M	Justin Yu & Wesley Luh	Optimizing Machine Learning Based Ocean Oil Spill Detection using
227		30 <u></u>	. • 1	tas	Genetic Algorithm Techniques
G1 3	114-Н90-71	SoftEng	NΛ	Rohan Koodli	Identifying Genes affected by Metformin in Triple-Negative Breast Cancer
	121-110-D1	BehavSci		Talal Sohail	Using Drosophila melanogaster as a Model Organism to Investigate
CJI	110 D1	Denavoor	ivi	raiai condii	the Effects of Geometric Patterns on Food Attraction
					the Energy of Ocemetric Fatterns of Food Attraction

Loc. Proj. Num. Team Field Gender	Students	Title
C33 121-140-н2 <b>T BehavSci M Kevin</b> X	Xu & Raymond Xu	Modeling the Dual Effect of Governmental Aid and Hospital Subsidization on Hospital Performance: An Affordable Care Act
C34 121-150-E1 BehavSci F Amulya	a Vadlakonda	The Effects of Awareness Models on the Sustainability of our Organ Donation System
	Borunda & McKinley Madison	The Effects of Cigarette Litter and Triclosan on Plant Cell Resilience to Freezing
C36 121-320-A1 AnimalSci M Jacob		The Effects of Ocean Acidification on the Adult Starfish Ophioderma squamosissimus
	Tharp & Xander Woyciehowsky	Mitigating the Effects of Blue Light Exposure in Danio rerio
C38 121-340-21 AnimalSci M Jay Up		Examining the combination of photoactivated adenylcyclase and
, ,		channelrhodopsin2 in optogenetic activation of C. elegans
C39 121-350-F1 AnimalSci F Daijuna	ay Turner	The Role of Invasive Snail Ecology in the Production of Possible
,	•	Natural Buffer Solutions
C42 121-410-61 BiocheMic F Varvara	ra Shvareva	Upregulating the levels of the microtubule severing protein spastin in
		neuroblastomas to model axonal regeneration
C43 121-420-12 T BiocheMic M Charlet	ey Wang & Jonathan To	The effects of polyphenol inhibitors on Alpha-Synuclein fibril formation in vitro.
C44 121-430-F1 BiocheMic F Leah B		Examining the combined effects of 2-DG and calycosin on apoptosis of cancer cells
C45 121-440-B1 BiocheMic M Jordan		Green tea catechins inhibitory effects on tumorigenisis
	go & Dan Nguyen	The effect of antibiotics on acne bacteria
	Karim & Sharon Truong	The Effect of Different Probiotic Bacterial Strains on Ammonia (NH3)
	J	Production Levels
C48 121-480-C1 BiocheMic F Samika	a Kikkeri	E.coli biofilms and induction of natural transformation
C49 121-490-81 BiocheMic F Saman	ntha Cheung	The Investigation of the Prevalence of the Wolbachia Gene in
	· ·	Arthropods from Cities of the Bay Area
C50 121-510-F1 BioInfo M Gautar	m Prabhu	Kinetic Modeling of Signal Transduction in the Intra-S Phase DNA
		Damage Checkpoint
C51 121-540-31 BioInfo M Pravin	Ravishanker	ALZCan: Predicting Future Onset of Alzheimer's Disease Using Polygenic
		Risk Scores and Multiple Neuroimaging Modalities
C52 122-A10-A1 Chemistry F Anisha	a Palasamudrum	Testing Vitamin E Isomers to downregulate VEGF Receptors and
•		inhibit angiogenesis.
C53 122-A20-61 Chemistry F Chiara	a Cerruti	Analyzing the Effect of Sulindac Derivatives on the Aggregation of
		Amyloid Beta Protein
C54 122-A30-21 Chemistry F Mikayla	la Marrin	The effect of flavonoids on exopolysaccharide matrix of bacterial biofilms
C55 122-A40-F1 Chemistry F Hanna	ah Milligan	The Effect of St. John's Wort on the Serotonin Response Behavior in C. elegans
C56 122-A50-B1 Chemistry M Tan Ho	0	The effect of juice vesicles on H+ diffusion in the electrolyte of a grapefruit battery
C57 122-A60-71 Chemistry F Angela	a Bui	What is the effect of different water treatment methods on the
		removal of Copper (II) ions?
B56 122-A70-22 T Chemistry F Vianna	a Vo & Allison Lee	Removal of Boron and Other Harmful Solutes from Greywater Using
		Low-Cost Household Items
B55 122-A90-C1 Chemistry M Mark B	Brogan, Jr	Acid, Base, and Breakfast
B53 122-B10-12 T CheEnvEng M Sanam	n Nagvekar & Dhilip Raman & Ashish Prasad	What is the Effect of Sulphur - Limonene Polysulphide on the
		Elimination of Heavy Metals.
B52 122-C10-B1 EarEnvSci F Veronic	ica Hsu	The extent at which plant derived saponin can be used as a
		biosurfactant to remediate contaminated soil

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		Hillary Trinh & Tracy Doan & Michelle Le	Durability of Biodegradable Fabric Alternatives
B49 122-C30-22 <b>T E</b>	arEnvSci F	Swathi Ramprasad & Kanika Nair	Is red marine seaweed able to detoxify plastic pollutants in the Brine
			Shrimp population?
B47 122-C40-F2 <b>T E</b>	arEnvSci 5/4	₁ Tina Kim & Dong Tran & Lani Luong	Pisaster Disaster: Observation on Sea Star Wasting Disease in
			Natural Bridges State Beach Tide Pools
B46 122-D10-31 P	hysAstr M	Anthony Ramos	The Importance of Surface Area and Emissivity in Miniature Heat
		·	Sinks for Small Devices
B45 122-D11-11 P	hysAstr F	Julia Yu	The effect of impact velocity on the radius of splatter of liquid on flat surface
B44 122-D20-G1 P	hysAstr F	Jennifer Huang	Analyzing the Effects of Differing Musical Tone Colors on the
	•	Ç	Frequency Spectrum Using Spectrum Analysis
в43 122-D30-B2 <b>Т Р</b>	hysAstr M	Shashank Dholakia & Shishir Dholakia	Searching for Exoplanets: A Novel K2-based Study of the Effects of
	•		Open Cluster Characteristics on Exoplanet Abundance
B42 122-D40-81 <b>P</b>	hysAstr F	Carleen Markey	Effects of Magnetic Field Strength on Ozone Layer Depletion
		Anh Duong	Reducing the Falling Time of an Object by Rotational Inertia
		Harrison Ngo	Measurement of Heat Being Transferred
		Shanmurugan Selvamurugan	Designing a Probabilistic Photometric Transit Algorithm to Increase
	•		Success Rates of Identifying Earth-like Planets
B36 122-D80-91 P	hysAstr F	Selene Cortes	Geothermal/Renewable Heater
		Shaunak Modak	A Study of the Impact of the Host Galaxy's Characteristics on
	,		Metallicity of a Globular Cluster
взз 122-Е10-В2 ТЕ	lecEng M	Avneesh Mehta & Klemen Kotar & Varin Goyal	Electrical Power System for High-Powered Rockets
B31 122-E20-72 <b>T E</b>		Sammy Khadder & Bradley Seamons	Around the Corner
		I Steven Wong	Developing photovoltaic cells using Titanium Dioxide and citrus fruits
		Nilay Sawant	FitBox: A Smart Diet Controlling Container for Type 2 Diabetes
		Richard Le	Diffraction & Aperture Manipulation of Digitized Camera Obscura
		Trishla Pokharna	Solar Water Harvesting from Moist Air
		Jazlynn Windham & Tamieka Gibbs	Designing Structurally Stable Wall Units Usable in Regions with Limited Resources
		l Gajan Nagaraj	A Novel Fire Hazard Autodetect System for Vents, Pipes, and Chimneys.
B21 122-F40-82 <b>T M</b>		Dosa Ty & Nathan Le & Jeffrey Nguyen	Redesigning Airplane Seats for Optimal Space and Comfort
		I Hoaian Dang	Deployable Photovoltaic Cells Designed for Small Satellites
		Harlan Wiitala	Innovative CubeSat Thermal Regulation Using Phase-Changing Materials
		Nam Nguyen & Jason Tran & Brian Nguyen	An Earthquake Alarm System To Provide Warnings Within Buildings
		Albert Xu	Making and testing a haptic joystick controller with magnetorheological fluid
		Justin Nguyen & David Thach & Kulraj Naru	The Difference Between Life and Death: How a Helmet's Design Affects its Strength
		Grant Kramer-Weis	The Mathematics of Well-Mixed Decks
B12 122-H10-51 <b>S</b>		Elina Yon	eyeHelper: An iOS Application Aid for the Visually Impaired
B10 122-H11-22 <b>T S</b>		Pavel Frolikov & Neil Katahira & Kenneth Doan	The Cane That You Can See
A10 122-H20-H2 <b>Т S</b>		Devyan Biswas & Enika Biswas	What is the Optimum Data Volume for Persistent and Accurate Data
	- 3		Transfer from IoT Devices/Sensors to Cloud Storage?
A11 122-H30-E1 S	oftEng M	Nicolas Chan	Evaluating and Developing Algorithms for Computer Music Composition
A13 122-H40-92 <b>T S</b>		Raghav Kapoor & Yao Dai & Minh Vo	Controlling drones wirelessly using simple hand motion from a computer
		- O	2

Loc. Proj. Num. To			Title
A14 122-H50-61	SoftEng	F Alana Beyer	Assessing the accuracy of WordtoVec Assisted Translations of
			Uncommon Languages
A15 122-H60-21	SoftEng	M Kaushik Tandon	H.A.W.K. Hate Speech Detection using Artificial Intelligence
A16 122-H70-F1	SoftEng	M Krish Kalai	Efficient algorithm to store and retrieve geo-coded data for
			augmented reality (AR) applications.
A18 122-H80-A2	T SoftEng	M Muhammad Anas & Syed Hassan	Classroom Behavioral Management Tool
A19 122-H90-71	SoftEng	M Ganesh Valliappan	HAIL: A Novel Pathfinding Algorithm for Disaster Situations
A20 123-120-B1	BehavSci	M Alan Huang	Engaged by Elgar: Stratified Analysis of Physiological Responses to
		-	Naturalistic Music
A21 123-410-81	BiocheMic	M Scott Song	Development of a Novel Therapeutic Strategy for Neurodegenerative
		•	Diseases Using a Microfluidic Co-Culture System
A22 123-460-51	BiocheMic	F Margo Lusinchi	The effect of Gallium +3 cation on Diffuse Intrinsic Pontine Glioma (DIPG) cells
A23 123-470-11	BiocheMic	F Marilyn Zhang	Inflammatory Immune Cell-derived Extracellular Vesicles Impose
		3. , 3	Malignant Phenotypes in Normal Breast Epithelial Cells
A26 123-480-E1	BiocheMic	M Gokul Kalyanasundaram	Tuning Promoters for Glucose Detection in Escherichia. coli Using
		,	Energy Matrix Based Computational Model
A27 123-510-H1	BioInfo	F Angela Kim	Radial Vector Scanning (RVS) Algorithm for Breast Cancer Segmentation
A28 123-520-D1	BioInfo	M Arjun Subramaniam	CadML: Computational Antibody Design Through Deep Learning and
1120 120 020 01	2.00	m / njan Gabramamam	Structural Protein Analysis
A29 123-530-91	BioInfo	F Evani Radiya-Dixit	Identification of Therapeutic Cancer Targets Across
		•	Adenocarcinomas Using Genome-wide DNA Methylation Analyses
A30 123-540-51	BioInfo	M Manan Shah	Deep Learning Assessment of Tumor Proliferation in Histological
			Images for Comprehensive Breast Cancer Severity Analysis
A31 123-550-H2	T BioInfo	M Alexander Wang & Mikhail Ivkov	Modeling of Relative Quantification Data from Tandem Mass Tags
		Ç	Mass Spectrometry
A32 123-570-92	T BioInfo	M Alexander Ivanov & Anthony Ngo	Relation of Body Size and Ecological Modes
A33 123-580-61	BioInfo	F Tanisha Joshi	Identification of Gene Expression Signatures Linked to Patient
			Treatment Response in Leukemia Studies from Open Data
A34 123-590-21	BioInfo	M Sajeev Saluja	Effects of Marijuana Usage on Risk for Cardiovascular Disease
A35 123-620-51		F Katherine Mumm	Disassembly of LDL by Bromelain: Investigating a New Approach to
			Attacking Atherosclerotic Plaques
A36 123-640-E1	MedHeaSci	M Thomas Thach	The Expression Pattern and Function of Fgf12 in Embryonic Heart Development
A37 123-650-A1	MedHeaSci	F Ankita Chatterjee	Neuronal Receptor Plasticity in Response to Pregnenolone Sulfate
		, <b>,</b>	as a Novel Therapeutic for Neurodegenerative Diseases
A38 123-660-61	MedHeaSci	F Shriya Perati	Exploring the Role of the 16p11.2 Copy Number Variation in
			Neurodevelopmental Disorders
A39 123-680-F1	MedHeaSci	F Roxanne Ohayon	The Role of Exercise-Induced Mitochondrial Fission During Ischaemic Injury
A42 123-690-B1		M Pranav Lalgudi	CRISPR/Cas9-based in vivo somatic gene editing enables
1112 123 070 DI	111001100001		investigation of Kras mutant function in mouse models of cancer
A43 123-710-11	BiomedEng	M Arvind Sridhar	Toward Precision Medicine: Harnessing Graphene Hydrogels, iPSCs, and
	Didinodeng		Computational Models for Cardiac Tissue Engineering
			Comparational models for Gardian model Engineering

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A44 123-720-E1	BiomedEng	M Vardhaan Ambati	Personalized Cancer and Viral Therapy: Clostridium-based Cell
			Delivery System coupled to CRISPR/Cas9 Nanotherapeutic
A46 124-B10-41	CheEnvEng	M Aditya Menon	Engineering Biologically Inspired Enzymatic Analogs: Hybrid
			Organic/Inorganic Nanocatalysts
A47 124-C10-D1	EarEnvSci	M Sandip Nirmel	The Biological Pump in a Changing Climate: Identifying Drivers of
			Sinking of Antarctic Phytoplankton and Ice Algae
A48 124-C20-91	EarEnvSci	M Akaash Tawade	Operation Pulse: Quantifying the Impact of Precipitation and
			Inundation on Pulsed Salt Marsh Greenhouse Gas Fluxes
A49 124-D10-51	PhysAstr	F Sneha Bhetanabhotla	Examining the Chiral Vortical Effect in Weyl Semimetals
A51 124-F10-52	T MechEng	M Vivek Menon & Nidhin Madhu & Dev Sharma	Heat Management of an LED High Power Light Panel
A52 124-F20-21	MechEng	M Eric Wang	Flow Characterization of Airwakes Around a Naval Ship Model
A53 124-G10-F1	Math	M Salvador Raymundo-Diaz	Using nonlinear quantum mechanics to prove p = np.
A54 124-G20-B1	Math	M Matthew Hase-Liu	Efficient Point-Counting Algorithms for Superelliptic Curves via the
			Cartier Operator and the Hasse-Weil Bound
A55 124-H30-F2	T SoftEng	<sup>F</sup> / <sub>M</sub> Anika Cheerla & Nikhil Cheerla	Mitosis Detection and Tumor Grading Using Deep Convolutional Neural Networks
A56 124-H40-C1	SoftEng	M Rishab Gargeya	EyeLogic: All-Purpose Vision Disease Detection in Clinic-Sourced
			and Low-Cost Smartphone-Based Retinal Images
A57 124-H50-81	SoftEng	M Allen Chen	Using Neural Networks to Predict Future Heart-Related
			Hospitalizations Based on Patients' Electronic Health Records