

# sefh

Science & Engineering  
Fair of Houston

Presented by



Student First Name	Student Last Name	Place	Division	SEFH Category	Project Title	School Name
Sathvika	Akula	1st	Junior	Animal Sciences	Studying Sound With Shrimp	MCCULLOUGH JUNIOR HIGH SCHOOL
Sydney	Petersen	2nd	Junior	Animal Sciences	The Science of a Dog Lick	SEABROOK INTERMEDIATE
Jacob	Daniels	3rd	Junior	Animal Sciences	The Effects of Salinity on Brine Shrimp Populations	KNOX JUNIOR HIGH SCHOOL
Nathan	Pyne	Honorable Mention	Junior	Animal Sciences	Lizards in Hurricanes	Edwards-Johnson Memorial Middle School
Emily	Valerio	1st	Junior	Behavioral & Social Sciences	Stress Test	MCCULLOUGH JUNIOR HIGH SCHOOL
Siddhanth	Pachipala	2nd	Junior	Behavioral & Social Sciences	Heeding the Herd	MCCULLOUGH JUNIOR HIGH SCHOOL
Cole	Schulmire	3rd	Junior	Behavioral & Social Sciences	Do Age and Gender play a role in the McGurk Effect?	MAGNOLIA JR. HIGH
Alexandra	Ebbeler	Honorable Mention	Junior	Behavioral & Social Sciences	Is There a Rainbow Connection?	BEAR BRANCH JR. HIGH
Siri	Harris-Ryden	1st	Junior	Biochemistry & Microbiology	Briny Bread	SEABROOK INTERMEDIATE
Eman	Fayyaz	2nd	Junior	Biochemistry & Microbiology	A Gassy Problem	MCCULLOUGH JUNIOR HIGH SCHOOL
Kari	Stewart	3rd	Junior	Biochemistry & Microbiology	Air Particulates	BAYSIDE INTERMEDIATE SCHOOL
Roopa	Pabolu	1st	Junior	Chemistry	Spherification - Alternate for Plastic	MCCULLOUGH JUNIOR HIGH SCHOOL
Alex	Merino	2nd	Junior	Chemistry	Backyard Rocketeer	Ulrich Intermediate School
Alexander	Lagos	2nd	Junior	Chemistry	Backyard Rocketeer	Ulrich Intermediate School
Christopher	Ramirez	2nd	Junior	Chemistry	Backyard Rocketeer	Ulrich Intermediate School
Evan	Chang	3rd	Junior	Chemistry	Tea Time- Which Type of Decaffeinated Tea Has the Least Amount of Caffeine?	PERSHING MIDDLE SCHOOL
Cameron	Glowacki	Honorable Mention	Junior	Chemistry	Solar Powered Bottle Buncher	The Rubicon Academy
Anisha	Parsan	1st	Junior	Computer Sciences	Backseat Driver - Smart Posture Assistant Seating System for Drivers	FORT SETTLEMENT MIDDLE SCHOOL
Anushka	Aggarwal	2nd	Junior	Computer Sciences	Auxilium- Helping People with Disabilities Travel Safer and More Efficiently	QUAIL VALLEY MIDDLE SCHOOL
Madison	Burke	2nd	Junior	Computer Sciences	Auxilium- Helping People with Disabilities Travel Safer and More Efficiently	QUAIL VALLEY MIDDLE SCHOOL
Divya	Patel	3rd	Junior	Computer Sciences	Grudgingly Biased	MCCULLOUGH JUNIOR HIGH SCHOOL

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Lorelei	Binford	Honorable Mention	Junior	Computer Sciences	Reaction Time and Short Term Memory	PEET JUNIOR HIGH SCHOOL
Stephen	Cupitt	1st	Junior	Earth & Space Sciences	The Unhealthy Creek?	LEAGUE CITY INTERMEDIATE SCHOOL
Delaney	Murphy	2nd	Junior	Earth & Space Sciences	A Sun Clock - I think not?	MOORHEAD JUNIOR HIGH SCHOOL
Ela	Albuz	3rd	Junior	Earth & Space Sciences	Growing Sustained Food Source for Interstellar Travel	MCCULLOUGH JUNIOR HIGH SCHOOL
Kendall	McBride	1st	Junior	Energy & Transportation	Wattage vs. Lumens	BEAR BRANCH JR. HIGH
Aditi	Chopra	2nd	Junior	Energy & Transportation	Power of Wave Energy	MCCULLOUGH JUNIOR HIGH SCHOOL
Caitlin	Kollar	3rd	Junior	Energy & Transportation	Keeping Cool	MCCULLOUGH JUNIOR HIGH SCHOOL
Kovi	Vetter	Honorable Mention	Junior	Energy & Transportation	Defeat the Heat	SEABROOK INTERMEDIATE
Ashley	Ball	1st	Junior	Engineering: Aerospace	Defying Gravity	YORK JUNIOR HIGH SCHOOL
Mitchell	Barton	2nd	Junior	Engineering: Aerospace	Fintastic Rocket Science	MCCULLOUGH JUNIOR HIGH SCHOOL
Grant	Griffin	3rd	Junior	Engineering: Aerospace	Splitting Air	SEABROOK INTERMEDIATE
Ashlyn	Birney	Honorable Mention	Junior	Engineering: Aerospace	Droning On	SEABROOK INTERMEDIATE
David	Bidulescu	1st	Junior	Engineering: Chemical	Paper Is Power Saving the Planet, One Battery At A Time	SEABROOK INTERMEDIATE
David	Villa	2nd	Junior	Engineering: Chemical	Thermal Transfer	Stovall MS
Ved	Ganesh	1st	Junior	Engineering: Electrical/Mechanical /Civil	Breaking Down the Breakwaters	SARTARTIA MIDDLE SCHOOL
Jasmine	Chou	2nd	Junior	Engineering: Electrical/Mechanical /Civil	Infant Protection in Overheating Cars	QUAIL VALLEY MIDDLE SCHOOL
Sneha	Sinha	2nd	Junior	Engineering: Electrical/Mechanical /Civil	Infant Protection in Overheating Cars	QUAIL VALLEY MIDDLE SCHOOL
Christina	Geppert	3rd	Junior	Engineering: Electrical/Mechanical /Civil	effect of nozzle types for impulse turbines on efficiency	SEABROOK INTERMEDIATE
Vera	Geppert	Honorable Mention	Junior	Engineering: Electrical/Mechanical /Civil	Coanda- Effect Screen Performance in Water Intake Cleaning Systems	SEABROOK INTERMEDIATE

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Truett	Ross	1st	Junior	Engineering: Materials & Bioengineering	Pop Goes The Tire!	SEABROOK INTERMEDIATE
Emmy	Li	2nd	Junior	Engineering: Materials & Bioengineering	Absorption Study of Loofa	WESTBROOK INTERMEDIATE
Kathy	Nguyen	3rd	Junior	Engineering: Materials & Bioengineering	Rosin Precaution	KILLOUGH MIDDLE SCHOOL
Natalie	Zdroykowski	Honorable Mention	Junior	Engineering: Materials & Bioengineering	Blocking Heat Transfer	MCCULLOUGH JUNIOR HIGH SCHOOL
Zaina	Ali	1st	Junior	Environmental Sciences	Ferrofluids; Year Two Study	FORT SETTLEMENT MIDDLE SCHOOL
Ethan	Kidwell	2nd	Junior	Environmental Sciences	Eutrophication Situation: What is the Effect of Organic and Non-Organic Fertilizer on Algae Growth in Brackish Water?	KNOX JUNIOR HIGH SCHOOL
Saanvi	Mistry	3rd	Junior	Environmental Sciences	Tornado in a Box: How long does it take for a tornado to form in a two foot box?	FIRST COLONY MIDDLE SCHOOL
Naomi	Gutierrez	Honorable Mention	Junior	Environmental Sciences	Toxin vs. Plant	SEABROOK INTERMEDIATE
Emily	Troutman	1st	Junior	Mathematics	Optimizing Crowd Emergency Evacuation Response Time Using Pedestrian Evacuation Dynamics, Monte Carlo Simulation, and Nash Equilibrium Theory	LEAGUE CITY INTERMEDIATE SCHOOL
James	Leskowitz	2nd	Junior	Mathematics	Catan: A Better Beginner Board	SEABROOK INTERMEDIATE
Thomas	Creedon	3rd	Junior	Mathematics	Deal Or No Deal	SEABROOK INTERMEDIATE
Audrey	Fuex	Honorable Mention	Junior	Mathematics	Fast Food: is Bigger Always Better?	SEABROOK INTERMEDIATE
Samuel	Tay	1st	Junior	Medicine & Health	Does Cinnamon Lower Glucose in Diabetic Patients?	MCCULLOUGH JUNIOR HIGH SCHOOL
Rotem	Ris	2nd	Junior	Medicine & Health	The Effect of Different Spices on the Regeneration of Brown Planaria ( <i>Dugesia tigrina</i> )	MCCULLOUGH JUNIOR HIGH SCHOOL
Brooke	Yount	3rd	Junior	Medicine & Health	Are Full Face Snorkel Masks Silent Killers	SEABROOK INTERMEDIATE
Adrita	Rahman	Honorable Mention	Junior	Medicine & Health	Which age range gets affected with performance anxiety the most?	BONDY INTERMEDIATE
Kaitlyn	Bird	1st	Junior	Physics & Astronomy	How Does Kite Design Affect Flight?	MCCULLOUGH JUNIOR HIGH SCHOOL
Alexandra	Rosales	2nd	Junior	Physics & Astronomy	Impact of standard living on your invisible connection to the internet	BONDY INTERMEDIATE
Aditya	Chandran	3rd	Junior	Physics & Astronomy	Levitation Force of Different Magnetic Arrays	MCCULLOUGH JUNIOR HIGH SCHOOL

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Gillian	Fricker	Honorable Mention	Junior	Physics & Astronomy	Mister Extinguisher	SEABROOK INTERMEDIATE
Ganesh	Venu	1st	Junior	Plant Sciences	Can Potassium help Save Water in Rice Production?	FRIENDSWOOD JUNIOR HIGH SCHOOL
Anna	Singh	2nd	Junior	Plant Sciences	Probiotics for plants	Nolan Ryan MS
Patrick	McKenna	3rd	Junior	Plant Sciences	Green Lies	MCCULLOUGH JUNIOR HIGH SCHOOL
Hailey	Jeter	1st	Junior	Robotics and Intelligent Machines	The Helping Bot	PEET JUNIOR HIGH SCHOOL
Travis	Relyea	2nd	Junior	Robotics and Intelligent Machines	Operation MazeBot	SEABROOK INTERMEDIATE
Yaneli	Roman	3rd	Junior	Robotics and Intelligent Machines	A Solution for Water Pollution	YES Prep Middle School
Sylvia	Garcia	Honorable Mention	Junior	Robotics and Intelligent Machines	Light-Tracking Robot	PEET JUNIOR HIGH SCHOOL
Christopher	Calizzi	1st	Senior	Animal Sciences	Modeling Prenatal Nicotine Exposure with Hydra Littoralis	ACADEMY OF SCIENCE AND TECHNOLOGY
Grace	Pascarella	2nd	Senior	Animal Sciences	Comparison of Strepsiptera Caenochloax fenyesi, Xenos peckii, and Mengenilla leucomma Antenna and Mouthpart Sensilla	ACADEMY OF SCIENCE AND TECHNOLOGY
Ammar	Siddiqi	3rd	Senior	Animal Sciences	Protecting Aquatic Organisms by Utilizing Biochar and LDH	ACADEMY OF SCIENCE AND TECHNOLOGY
Aly	Knowles	1st	Senior	Behavioral & Social Sciences	Procrastination Versus Perceived Consequences	FRIENDSWOOD HIGH SCHOOL
Mahi	Patel	2nd	Senior	Behavioral & Social Sciences	A News Perspective: Effect of News Frames on Decision-Making and Emotional Responses Reflected by Measures of Non-Metabolic Heart Rate	ACADEMY OF SCIENCE AND TECHNOLOGY
Celeste	Trevino	3rd	Senior	Behavioral & Social Sciences	From synaptic activity to conscious thought, how technology is changing children.	THE WOODLANDS COLLEGE PARK HS
Soumya	Somani	3rd	Senior	Behavioral & Social Sciences	From synaptic activity to conscious thought, how technology is changing children.	THE WOODLANDS COLLEGE PARK HS
Ruth	Simpson	Honorable Mention	Senior	Behavioral & Social Sciences	Society's Perception of Public Health	ACADEMY OF SCIENCE AND TECHNOLOGY
Melannie	Nimocks	1st	Senior	Biochemistry & Microbiology	Analyzing the Effects of CRISPR	ACADEMY OF SCIENCE AND TECHNOLOGY
Andrew	Miller	2nd	Senior	Biochemistry & Microbiology	A Novel Biosynthetic Pathway for In Vivo Synthesis of d-Luciferin in Escherichia coli	ACADEMY OF SCIENCE AND TECHNOLOGY
Galio	Guo	3rd	Senior	Biochemistry & Microbiology	Whole cell Escherichia coli concentration determination using magnetostrictive material	ACADEMY OF SCIENCE AND TECHNOLOGY
Faiz	Shakoor	Honorable Mention	Senior	Biochemistry & Microbiology	Biosorption of Radiation in Texas Water	HIGHTOWER HIGH SCHOOL

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Zhi-Wei	Zeng	1st	Senior	Chemistry	Facile Synthesis of Super Hydrophobic Sponge for Underwater Oil-Water Separation	Zeng Homeschool
Carl	Ho	2nd	Senior	Chemistry	Optimization of the Depolymerization of PET via Phase Transfer Catalysis	CLEAR LAKE HIGH SCHOOL
Grace	Song	2nd	Senior	Chemistry	Optimization of the Depolymerization of PET via Phase Transfer Catalysis	CLEAR LAKE HIGH SCHOOL
Clara	Victorio	3rd	Senior	Chemistry	Removing Microplastics From Wastewater: Increasing the Efficiency of Electrocoagulation	ACADEMY OF SCIENCE AND TECHNOLOGY
Harry	Crocker	Honorable Mention	Senior	Chemistry	Can Oranges Fuel the World?	ACADEMY OF SCIENCE AND TECHNOLOGY
Prerit	Choudhary	1st	Senior	Computer Sciences	Engineering a Novel Wearable Biosensing Mechanism Through the Implementation Of Microelectromechanical Systems and Machine Learning to Realize Anomalies Hinting Toward Future Fatal Cardiac Episode	ACADEMY OF SCIENCE AND TECHNOLOGY
Govind	Chada	2nd	Senior	Computer Sciences	Using 3D Convolutional Neural Networks for Classification of Lung Nodules and Early Detection of Lung Cancer	Cypress Woods High School
Derek	He	3rd	Senior	Computer Sciences	Proposing, Iterating, and Validating an Innovative Deep Learning Architecture	ACADEMY OF SCIENCE AND TECHNOLOGY
Ian	Pedroza	3rd	Senior	Computer Sciences	Proposing, Iterating, and Validating an Innovative Deep Learning Architecture	ACADEMY OF SCIENCE AND TECHNOLOGY
Swathi	Mannem	Honorable Mention	Senior	Computer Sciences	Alternative Methods of Communication II	ACADEMY OF SCIENCE AND TECHNOLOGY
Alexandra	Tan	1st	Senior	Earth & Space Sciences	Mitochondrial Effects of High Energy High Charge (HZE) Irradiation on the Liver	BALL HIGH SCHOOL
Licheng	Lin	2nd	Senior	Earth & Space Sciences	Earthquake Resistant Structures	ACADEMY FOR SCIENCE AND HEALTH PROFESSIONS
Jamisen	Coumbe	3rd	Senior	Earth & Space Sciences	The effects of geotextiles and vegetation on slope erosion	ACADEMY FOR SCIENCE AND HEALTH PROFESSIONS
Jack	Paylor	Honorable Mention	Senior	Earth & Space Sciences	Predicting Sporadic E and Tropospheric Ducting to Enable for Long Distance VHF Communication	ACADEMY OF SCIENCE AND TECHNOLOGY
Steven	Drabbant	Honorable Mention	Senior	Earth & Space Sciences	Predicting Sporadic E and Tropospheric Ducting to Enable for Long Distance VHF Communication	ACADEMY OF SCIENCE AND TECHNOLOGY
Kumaran	Selva	1st	Senior	Energy & Transportation	Microlens-enhanced flexible gallium arsenide microcell array for low-cost, roof-top photovoltaics for automobiles	CLEAR LAKE HIGH SCHOOL

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Julie	Trinh	2nd	Senior	Energy & Transportation	Oil of the Future	CLEAR HORIZONS EARLY COLLEGE HIGH SCHOOL
Kayla	Nguyen	2nd	Senior	Energy & Transportation	Oil of the Future	CLEAR HORIZONS EARLY COLLEGE HIGH SCHOOL
Jester	Urbina	3rd	Senior	Energy & Transportation	Boxer and V Engine Fusion and Comparison	Blanson CTE High School
Nicholas	Devault	Honorable Mention	Senior	Energy & Transportation	Engineering a wind-powered Battery charger	ACADEMY OF SCIENCE AND TECHNOLOGY
Darryl	Previlor	1st	Senior	Engineering: Aerospace	The Mini Work Station for Astronauts Redefined	ACADEMY OF SCIENCE AND TECHNOLOGY
Alan	Makoso	2nd	Senior	Engineering: Aerospace	Heat and Boundary Layer Separation	Dulles HS
Logan	Murray	3rd	Senior	Engineering: Aerospace	Improving Aerodynamic Efficiency in Toroidal Aerospike Rocket Engines	ACADEMY OF SCIENCE AND TECHNOLOGY
Max	Oberg	3rd	Senior	Engineering: Aerospace	Improving Aerodynamic Efficiency in Toroidal Aerospike Rocket Engines	ACADEMY OF SCIENCE AND TECHNOLOGY
Vali	Khan	Honorable Mention	Senior	Engineering: Aerospace	A Firefighter's Assistant	ACADEMY OF SCIENCE AND TECHNOLOGY
Richard	Zhang	1st	Senior	Engineering: Chemical	Application of Engineered Natural Materials for Phosphorus Removal to Control Algae Blooms in Eutrophic Water with Insight into Chemical Mechanisms and Large-Scale Feasibility Analysis	CLEAR LAKE HIGH SCHOOL
Steven	Wu	1st	Senior	Engineering: Chemical	Application of Engineered Natural Materials for Phosphorus Removal to Control Algae Blooms in Eutrophic Water with Insight into Chemical Mechanisms and Large-Scale Feasibility Analysis	CLEAR LAKE HIGH SCHOOL
Taylor	Blanchard	2nd	Senior	Engineering: Chemical	Energy Storage Through Ferrofluids	CLEAR LAKE HIGH SCHOOL
Ananya	Kamath	3rd	Senior	Engineering: Chemical	Long Chain Fatty Acids (LCFAs) C 14-22: A Suitable Renewable Lipid Source for Biofuel Production	CLEAR LAKE HIGH SCHOOL
Robert	Stacks	Honorable Mention	Senior	Engineering: Chemical	Recreating the Electrolyte: A Method of Recycling Corroded Batteries	ACADEMY OF SCIENCE AND TECHNOLOGY
Jeremiah	Elizabe	1st	Senior	Engineering: Electrical/Mechanical /Civil	Improving Motorcyclist Safety: A New Helmet Integrity Monitoring Technology	ACADEMY OF SCIENCE AND TECHNOLOGY
Ronin	Burke	1st	Senior	Engineering: Electrical/Mechanical /Civil	Improving Motorcyclist Safety: A New Helmet Integrity Monitoring Technology	ACADEMY OF SCIENCE AND TECHNOLOGY

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Andrew	Yu	2nd	Senior	Engineering: Electrical/Mechanical /Civil	Developing A Cost-Efficient System to Remotely Monitor Physical Therapy Exercise	ACADEMY OF SCIENCE AND TECHNOLOGY
Shobha	Dasari	2nd	Senior	Engineering: Electrical/Mechanical /Civil	Developing A Cost-Efficient System to Remotely Monitor Physical Therapy Exercise	ACADEMY OF SCIENCE AND TECHNOLOGY
Yashas	Salankimatt	2nd	Senior	Engineering: Electrical/Mechanical /Civil	Developing A Cost-Efficient System to Remotely Monitor Physical Therapy Exercise	ACADEMY OF SCIENCE AND TECHNOLOGY
Nathan	Nguyen	3rd	Senior	Engineering: Electrical/Mechanical /Civil	The Nose Knows: Detecting Fungi Utilizing an Artificial Neural Network Based Electronic Nose	ACADEMY OF SCIENCE AND TECHNOLOGY
Aparna	Tampi	Honorable Mention	Senior	Engineering: Electrical/Mechanical /Civil	Heatsave: An App For Combating Pediatric Vehicular Heatstroke	ACADEMY OF SCIENCE AND TECHNOLOGY
Marcus	Schlauch	1st	Senior	Engineering: Materials & Bioengineering	Portable Graphene Oxide Desalination	CLEAR BROOK HIGH SCHOOL
Siddharth	Krishnakumar	3rd	Senior	Engineering: Materials & Bioengineering	Postural Dysfunction Sensors for Assisted Living	Glenda Dawson Homeschool - Krishnakumar
Muhammad	Zain	Honorable Mention	Senior	Engineering: Materials & Bioengineering	Formulating an Affordable yet Medically Supervised 3D Printed Vein Reader For Disadvantaged Nations	CLEAR BROOK HIGH SCHOOL
Saad	Nadeem	Honorable Mention	Senior	Engineering: Materials & Bioengineering	Formulating an Affordable yet Medically Supervised 3D Printed Vein Reader For Disadvantaged Nations	CLEAR BROOK HIGH SCHOOL
Michael	Gerhard	1st	Senior	Environmental Sciences	Examining Cultural Eutrophication: A Novel Smartphone Application for the Determination and Mapping of Phosphate Content in Aquatic Ecosystems via Crowdsourcing	ACADEMY OF SCIENCE AND TECHNOLOGY
Yasmin	Jackson	2nd	Senior	Environmental Sciences	Coal Ash: Testing the effect of fly ash on radiation levels in soil at Texas coal power plants	ACADEMY OF SCIENCE AND TECHNOLOGY
Mehaa	Amirthalingam	3rd	Senior	Environmental Sciences	A Novel Toilet Flushing System Using Greywater and Freshwater	Travis High School
Emerald	StLaurent	Honorable Mention	Senior	Environmental Sciences	Ready, Set, Glow: Pt 2	Academy for Careers in Engineering and Science
Hayley	Jue			Environmental Sciences	Comparing the Toxicity of Chemical and Organic Pesticides on Human Gut Bacteria Equilibrium	ACADEMY OF SCIENCE AND TECHNOLOGY

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Brendan	Alam	1st	Senior	Mathematics	Implementing Econophysics to Predict Mixed Migrations	ACADEMY OF SCIENCE AND TECHNOLOGY
Michael	Menezes	2nd	Senior	Mathematics	A Slick Model: Modeling the Dispersion of Oil in Oceans	ACADEMY OF SCIENCE AND TECHNOLOGY
Jason	Yuan	3rd	Senior	Mathematics	Algebraic Topological Methods for the Analysis and Modeling of Protein Data	Seven Lakes High School
Ashley	Gibson	Honorable Mention	Senior	Mathematics	From a Concept to a Reality: The Parabolic Equation	THE WOODLANDS HIGH SCHOOL
Adarsha	Pokkulandra	1st	Senior	Medicine & Health	TMZ+X: siRNA-based synthetic lethal screening and synergism with TMZ as a novel approach to inhibition of proliferation in GBM	Dulles HS
Arnav	Garyali	1st	Senior	Medicine & Health	TMZ+X: siRNA-based synthetic lethal screening and synergism with TMZ as a novel approach to inhibition of proliferation in GBM	Dulles HS
Vaidya	Parthasarathy	2nd	Senior	Medicine & Health	The Missing Beat in the Stem-Cell Heart? Triggering Production of the Elusive T-Tubule Synthesis in mESCs using MBNL1	CLEAR LAKE HIGH SCHOOL
Ashley	Hoffman	3rd	Senior	Medicine & Health	Implications of F508del-CFTR on Aberrant Stem Cells in Cystic Fibrosis	CLEAR SPRINGS HIGH SCHOOL
Maya	Duran	Honorable Mention	Senior	Medicine & Health	Extracting Hirudin from the Hirudo medicinalis Leech II	ACADEMY OF SCIENCE AND TECHNOLOGY
Sebastian	Saenz	1st	Senior	Physics & Astronomy	Faraday's Return	ACADEMY OF SCIENCE AND TECHNOLOGY
Alejandro	Flores	2nd	Senior	Physics & Astronomy	Measuring Pollution with Spectroscopy	ACADEMY OF SCIENCE AND TECHNOLOGY
Ryan	Hartung	3rd	Senior	Physics & Astronomy	Mapping the Milky Way using the 21cm Line	Humble ISD H S
Christian	Pack	Honorable Mention	Senior	Physics & Astronomy	Rocket Aerodynamics	ACADEMY FOR SCIENCE AND HEALTH PROFESSIONS
Jacob	Bonnette	Honorable Mention	Senior	Physics & Astronomy	Rocket Aerodynamics	ACADEMY FOR SCIENCE AND HEALTH PROFESSIONS
Adham	Kassem	1st	Senior	Plant Sciences	Organic Stimulation of Plant Growth - Bacterial endophytes from Leersia oryzoides	ACADEMY OF SCIENCE AND TECHNOLOGY
Kate	Lee	2nd	Senior	Plant Sciences	Combating Drought with a Low-Cost, Biodegradable SAP	ACADEMY OF SCIENCE AND TECHNOLOGY
Esha	Chakraborti	3rd	Senior	Plant Sciences	What "Plant" they do? Treating Synthetic Wastewater for Domestic Reapplication	ACADEMY OF SCIENCE AND TECHNOLOGY
Zoe	Wang	3rd	Senior	Plant Sciences	What "Plant" they do? Treating Synthetic Wastewater for Domestic Reapplication	ACADEMY OF SCIENCE AND TECHNOLOGY

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Addison	Rosenbaum	Honorable Mention	Senior	Plant Sciences	Assessing the Best Plant Type to be Exposed to Carbon Dioxide and Grown in Vertical Gardens	ACADEMY OF SCIENCE AND TECHNOLOGY
Abhinav	Sinha	1st	Senior	Robotics and Intelligent Machines	PanOculus: A Novel, Multifaceted Diagnostic Tool for Skin Cancer, Diabetic Retinopathy, and Otitis Media Powered by Deep Learning	Dulles HS
Jayanth	Pratap	1st	Senior	Robotics and Intelligent Machines	PanOculus: A Novel, Multifaceted Diagnostic Tool for Skin Cancer, Diabetic Retinopathy, and Otitis Media Powered by Deep Learning	Dulles HS
Naail	Lakhani	1st	Senior	Robotics and Intelligent Machines	PanOculus: A Novel, Multifaceted Diagnostic Tool for Skin Cancer, Diabetic Retinopathy, and Otitis Media Powered by Deep Learning	Dulles HS
Kabir	Jolly	2nd	Senior	Robotics and Intelligent Machines	EyeSpy Diagnosis: Developing a Non-Invasive Smartphone-Based Intelligent Device and Application for the Accurate and Affordable Diagnosis of Eye Fundus Anomalies via Machine Learning	ACADEMY OF SCIENCE AND TECHNOLOGY
Vinay	Mannem	3rd	Senior	Robotics and Intelligent Machines	Developing an Autonomous Device Based on Ultrasonic Sensors in Order to Allow the Visually Impaired to Walk Safely and Confidently	ACADEMY OF SCIENCE AND TECHNOLOGY
Andy	Shen	Honorable Mention	Senior	Robotics and Intelligent Machines	The Development of an Early Wildfire Detection Device	ACADEMY OF SCIENCE AND TECHNOLOGY