

Division	Student Name	Project Title	School
Junior Engineering	Alyssa Janco	The Effects of Glycerin Concentration on the Decomposition of Starch-Based Biodegradable Bioplastics	The Emery/Weiner School
Junior Life Sciences	Caden Pohlkamp	Shedding Light On Galveston's Missing Nests: How Light Pollution And Sand Characteristics Affect Kemp's Ridley Sea Turtle Nesting Locations	Brookside Intermediate School
Junior Physical Sciences	Vihaan Ganga	FallResQ : An AI-Powered App To Save Lives After A Fall	Friendswood Junior High
Senior Engineering	Cayson Wang	AeroHive: A Novel Honeycomb Electrohydrodynamic Thruster Array with Vectorized Propulsion	AST: Academy of Science and Technology
Senior Engineering	Jiya Joshi	POCKET: A Multiplexing Point-of-care Kinetic Electrochemical Test using Aptamers for Accessible, Rapid Diagnostics	Travis High School
Senior Engineering	Sai Spoorthi Maram	POCKET: A Multiplexing Point-of-care Kinetic Electrochemical Test using Aptamers for Accessible, Rapid Diagnostics	Travis High School
Senior Engineering	Derek Jiu	Low-Cost Nanocrystalline Nickel Reinforcement of Additively Manufactured Thermoplastics for High-Stress, Aggressive Chemical Environments	ST. JOHN'S SCHOOL
Senior Engineering	Shriya Venkat	EcoHawk: YOLOv11 Low-Altitude Drone System for Simultaneous Detection, Geospatial Quantification, and Risk Mapping of Invasive Species with Real-Time Authority Notification	AST: Academy of Science and Technology
Senior Life Sciences	Iris Shen	Year III: Development of M. mercenaria Neoplastic Hemocytes as a Novel Alternative Experimental Model for BCL-2 Interactions in Blood Cancers: An Application for Targeted Drug Studies	AST: Academy of Science and Technology
Senior Life Sciences	Geoffrey Liu	A gamified go/no-go paradigm replicates behavioral and neural signatures of inhibitory control in neurosurgical patients	Glenda Dawson - HS
Senior Life Sciences	MANAS TELIKEPALLI	Frankenstein-Synuclein: Rational Engineering of a De Novo Replacement Protein via an In-Silico Pipeline for Parkinson's Disease Prevention	AST: Academy of Science and Technology
Senior Life Sciences	MANASHWIN NELLURI	Frankenstein-Synuclein: Rational Engineering of a De Novo Replacement Protein via an In-Silico Pipeline for Parkinson's Disease Prevention	AST: Academy of Science and Technology
Senior Life Sciences	Vibhan Emmi	Optimization of Spartina alterniflora-Microbe Interactions to Enhance Methane Degradation in Wetland Environments	AST: Academy of Science and Technology
Senior Physical Sciences	Claire Zhou	Causal Machine Learning for Optimal Completion Control in Permian Basin Shale Oil Production.	Dulles High School
Senior Physical Sciences	Sahil Kulkarni	GerrySim: A Markov Chain Monte Carlo Framework for Reducing Partisan and Racial Gerrymandering	AST: Academy of Science and Technology
Senior Physical Sciences	May Espinola	Object Centric Reinforcement Learning for Sim-to-Real Dexterous Manipulation	Tompkins - HS
Senior Physical Sciences	Madeleine Melancon	Controlling Drug Release from Alginate Hydrogel Beads Using Polymer Coatings	Carnegie Vanguard HS