

2023 Grand Award Winners

Category	Student	Project Title	School
Junior Life Sciences	Nia Shetty	Gold Nanoshells and Focal Laser Therapy: A Novel Approach to Solid Tumor Treatment	The Honor Roll School
Junior Physical Sciences	Raeef Dean	Artificial Intelligence for School Safety and Efficiency	League City Intermediate School
Junior Engineering	Maan Patel	Nature's Super Shapes: How Voronoi Tessellations Affect Structural Strength	Mccullough Junior High School
Senior Life Sciences	Melina Kumar	Is Your Cat or Dog Really Spayed: A Novel Test to Diagnose Ovarian Remnant Syndrome	Clear Lake High School
Senior Life Sciences	Pranav Somani	Anxi: A Novel Natural Language Processing System for the Detection and Prevention of Anxiety Disorders	Academy Of Science And Technology
Senior Life Sciences	Jaagat Prashar	Monco: A Novel Deep Learning Pipeline to Predict Drug Candidates for the Inhibition of EZH2 Cofactors in Pediatric Neuroblastoma	Jordan High School
Senior Life Sciences	Jaanak Prashar	Monco: A Novel Deep Learning Pipeline to Predict Drug Candidates for the Inhibition of EZH2 Cofactors in Pediatric Neuroblastoma	Jordan High School
Senior Life Sciences	Anshul Desai	Biofuel Production Optimization Through Modified Environmental Conditions in Nutritional Content and Plant Hormones for the Purpose of Increasing Starch Dryweight Content in Lemna Minor	Academy Of Science And Technology
Senior Life Sciences	Felix Li	Biofuel Production Optimization Through Modified Environmental Conditions in Nutritional Content and Plant Hormones for the Purpose of Increasing Starch Dryweight Content in Lemna Minor	Academy Of Science And Technology
Senior Physical Sciences	Shivani Mundra	Engineering a Cost-Effective and Biodegradable Cellulosic Battery Composition	Academy Of Science And Technology
Senior Physical Sciences	Madelynn Puza	Engineering a Cost-Effective and Biodegradable Cellulosic Battery Composition	Academy Of Science And Technology
Senior Physical Sciences	Rishab Ghosh	An Analysis Into the Removal of Microplastics from Water Using Oil-based Ferrofluids	Academy Of Science And Technology
Senior Physical Sciences	Rich Wang	Ending States of a Special Variant of the Chip-Firing Algorithm	Clements High School
Senior Physical Sciences	Jesse Miller	Investigating the effect of Qubit entanglement on quantum decoherence	Academy Of Science And Technology
Senior Engineering	Rohan Mehta	DiaVest: A Non-invasive Glucose Monitoring System for Diabetes Management	Academy Of Science And Technology
Senior Engineering	Roshan Mehta	DiaVest: A Non-invasive Glucose Monitoring System for Diabetes Management	Academy Of Science And Technology
Senior Engineering	Shreyas Vatts	DiaVest: A Non-invasive Glucose Monitoring System for Diabetes Management	Academy Of Science And Technology
Senior Engineering	Sohi Patel	Programmable Matter II: Optimizing Logical Topology and Automating Manufacture of a Microscale, Self-Reconfigurable Swarm Robotic System	Academy Of Science And Technology
Senior Engineering	Henry Aceves	ArmAssist: A Lightweight, Concealable Active Arm Support that Empowers Victims of Muscular Atrophy	Academy Of Science And Technology
Senior Engineering	Donovan Burke	ArmAssist: A Lightweight, Concealable Active Arm Support that Empowers Victims of Muscular Atrophy	Academy Of Science And Technology
Senior Engineering	Ayaan Dhuka	Autonomous, Over the Board Chess Solution for Players in Isolated Conditions	St. John's School H S
Senior Engineering	Landon Doughty	Autonomous, Over the Board Chess Solution for Players in Isolated Conditions	St. John's School H S
Senior Engineering	Caiman Moreno-Earle	Autonomous, Over the Board Chess Solution for Players in Isolated Conditions	St. John's School H S