Golden Gate STEM Fair Upper Division Final Placements			
Placement	**Name**	**School**	**Project Title**
1 Grand Prize	[redacted]	Carlmont High School	Evaluating Active, Passive, and Electromuscular Recovery Methods on Pitching Performance and Fatigue in High School Athletes
1 Grand Prize	[redacted]	San Mateo High School	The effect of graphene nanoplatelets and carbide filler on the hardness, adhesion, and erosion resistance of epoxy coatings for use in wastewater hydropower systems
1	David Liu	Crystal Springs Uplands School	A Comparative Analysis of Parasporin Families from Bacillus thuringiensis as Targeted Anti-Cancer Therapeutics
1	[redacted]	The Nueva School	Illuminating the Dark Proteome: Utilizing Machine Learning to Identify Novel Cancer Protein Targets
1	[redacted]	Menlo School	Kirigami-Based Soft Robotic Grippers with Geometric Optimization of Cut Topologies for Enhanced Prosthetic Functionality
1	[redacted]	Monta Vista High School	Remote Sensing of Oil–Mineral Aggregates Through Spectral Signature Analysis Using Transformers and Radiative Transfer
1	[redacted]	Design Tech High School	A Machine Learning-Based Diagnostic Utility for Predicting Ertapenem Resistance in Klebsiella pneumoniae Using MALDI-TOF MS Spectra
1	[redacted]	Aragon High School	Electrical Responses Associated with Wound-Induced Priming in Lima Bean Plants
2	[redacted]	Stanford Online High School	Modeling Kathak Dancers' Lower Bodies Through Forward and Inverse Kinematics for Injury Analysis of Tensile Fatigue and Stress
2	[redacted]	The Nueva School	A Novel LLM-Driven Pipeline for the Identification of Clinical Note Derived Digital Twins to Make Informed Medical Recommendations
2	[redacted]	Proof School	Finding unanticipated modifications to N-glycans in glycoproteomics data
2	[redacted]	St Ignatius College Preparatory	How Macronutrients Slow Glucose Diffusion: Insights for Reducing Type 2 Diabetes Risk
2	[redacted]	American Canyon High School	Impact of AVID Participation onAcademic STress and Mental Health Awareness of High School Students

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2	[redacted]	The Nueva School	An AI-Driven Wearable System for Affordable Early Detection of Neurodegenerative Diseases
2	[redacted]	San Mateo High School	Supramolecular pH/Thermo-Responsive Hydrogel Dressing for Advanced Wound Care
2	[redacted]	Emerald High School	CardioScope
2	[redacted]	The Nueva School	Deciphering Root-of-Unity XXZ Quantum Spin Chains Using Irreducible Representations of the Temperley–Lieb Algebra
2	[redacted]	Menlo School	Early and Fast Detection of AI-generated Music using Deep Learning
2	[redacted]	The Nueva School	Do adverse childhood experiences and intersectional minority status really affect educational outcomes?
2	[redacted]	Sacred Heart Cathedral Preparatory	Optimizing the Strength of Multi-Fluorescent Silk to Monitor Post-operative Recovery
2	[redacted]	The Nueva School	Computational Design and Structural Optimization of Ultra-Low-Cost PFAS Remediation Filters
2	[redacted]	Sonoma Academy	In vitro comparison of initial lumen diameter on closure rates of ameroid constrictors
2	[redacted]	Menlo Atherton High School	SolarFlux AI Prediction Model
2	[redacted]	Menlo School	Advancing Parkinson's Disease Detection and Intervention through Integration of PICO VR and Eye-Tracking in Complex Visual Environments
3	[redacted]	San Mateo High School	ShapeGrid: A color encoded grid for quantifying scatter plot similarity
3	[redacted]	Sacred Heart Preparatory	A De Novo Design of Optimized Viral Antigens
3	[redacted]	The Nueva School	FabAgent-X: An Agentic Optimization Framework for the Design of Sustainable Fabric Blends with Industry Validation
3	[redacted]	The Nueva School	Identification of Novel Targetable Surface Markers for Acute Myeloid Leukemia
3	[redacted]	Carlmont High School	DementiaSmartX Wearable
3	[redacted]	Menlo-Atherton High School	FACEFORM: A Visual Processing Study on Cognitive Decline

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3	[redacted]	Sacred Heart Preparatory, Atherton	Can AI See Tuberculosis? Evaluating Zero-Shot LLMs Against Specialized Deep Learning for CXR Screening
3	[redacted]	Burlingame High School	Closing the Wound Care Gap: A Low-Cost Negative Pressure Wound Therapy System for Low-Resource Settings
3	[redacted]	Carlmont High School	Using egg white protein based sprays to improve the shelf life of quick-spoilage foods
3	[redacted]	Mission San Jose High School	Low-Cost Foot Pressure Alert System for Early Diabetic Foot Ulcer Risk Detection
3	[redacted]	Proof School	Estimation of the Causal Effect of Oral Infections on Dementia Using a Longitudinal Targeted Maximum Likelihood Estimation (LTMLE) Approach
3	[redacted]	Nueva School	An Explainable AI Framework for Accurate and Interpretable Skin Cancer Detection
3	[redacted]	The Nueva School	
3	[redacted]	Westmoor High School	The Effects of Historical Redlining and Vegetative Cover on Lead Exposure in Children During Outdoor Play
3	[redacted]	Hillsdale High School	Modeling Avalanche Prediction Using Machine Learning Techniques
3	[redacted]	Carlmont High School	Optimization of Electrode Design in Marshland Plant Microbial Fuel Cells: A Novel Second Year Study
3	[redacted]	Dougherty Valley High School	Distributed Accelerometry for Damage Localization in Long-Span Structures Under Multi-Directional Earthquake Excitation
3	[redacted]	Sequoia High School	Visualizing the Lorentz Force: Tracing Alpha and Beta Particles in a Cloud Diffusion Chamber with Magnetic Field Application
3	[redacted]	Menlo-Atherton High School	Drugging the Undruggable: AI-Enabled Discovery of a Novel Cryptic Pocket and Inhibitors in Oncogenic eIF4E
3	[redacted]		An Experimental Study on the Effect of Parabolic Reflectors on the Transmission Rate of Consumer-Grade Wi-Fi
3	[redacted]	Menlo School	Data Curation for Edge Language Models: Heuristic Pre-Filtering and Multi-Expert Superfiltering

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3	[redacted]	[redacted]	Designing Microfluidic Devices for Rapid Quantification of Fecal Indicator Bacteria in Recreational Waters
4	[redacted]	Stratford Preparatory	Decoding The Unpredictable Behaviors of ASD Students
4	[redacted]	Menlo Atherton High School	The Benefits of a Cost-Effective RC Car Alternative
4	[redacted]	Crystal Springs Uplands School	Eco-Anxiety and Climate Perspectives of Youth in the Bay Area
4	[redacted]	Crystal Springs Uplands School	Visualization of Geologic Carbon Storage Processes Using Benchtop-Scale Models
4	[redacted]	Crystal Springs Uplands School	Decoding the Genetic Complexity of Epilepsy
4	[redacted]	Aragon High School	Evaluating the Predictive Power of Type 2 Diabetes Risk Factors in South Asians vs. Non South Asians: A Machine Learning Approach
4	[redacted]	[redacted]	Modulation of Neural Stem Cell Fate by Reactive Glial Cell
4	[redacted]	Redwood High School	Blinking Black Holes: Detecting Changing-Look AGNs with ZTF
4	[redacted]	The Nueva School	A High-Performance, Deployable AprilTag Vision Stack in Rust
4	[redacted]	Casa Grande High School	Testing the Predictive Power of Benford's Law in Detecting Data Fabrication
4	[redacted]	Sacred Heart Prep, Atherton	Second pulse
4	[redacted]	Lycée Français de San Francisco	A Generative AI-Driven Pipeline for Non-Specialists: Toward Democratizing Computer-Generated Animation.
4	[redacted]	The Nueva School	Efficient Recovery of Low Rank Matrices Utilizing Reed-Solomon Error Correction over F_{2^16}
4	[redacted]	Menlo Atherton	Heated wire high speed machining device (for foam)
4	[redacted]	The Nueva School	Global impacts of urbanization on soil fungal community structure and function
4	[redacted]		How Adult Music habits relate to stress and well-being.
4	[redacted]	Carlmont High School	Performance and Reliability Comparison of SR Latches Using Integrated vs. Discrete NOR Gates
4	[redacted]	Crystal Springs Uplands School	Open Field

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4	[redacted]	Sacred Heart Schools, Atherton	Optimizing Epigallocatechin Gallate for UV-Induced Oxidative Stress Mitigation in Skin Cancer Pathways
4	[redacted]		Predicting Progress of CRISPR Clinical Trials
4	[redacted]	Crystal Springs Uplands High School	Effect of Angle and Temperature on Solar Panel Efficiency
4	[redacted]	Lowell High School	Cold-Gas Microthruster Impulse-Bit Control
4	[redacted]	Lick Wilmerding High School	Illuminating Neural Pathways: Advancing Anterograde Tracers for Mapping Brain Connectivity in Health and Disease
4	[redacted]	San Marin High School	Terrain Relative Navigation Algorithm Investigation and Improvement
4	[redacted]	Menlo-Atherton High School	The Affects of Swimming on Sleep
4	[redacted]	Crystal Springs Uplands School	Metric-Aware 3D Asset Calibration in Photogrammetric Reconstruction Models
4	[redacted]	American High School	Using binary and scalar embedding quantization methods to compare retrieval accuracy, latency, memory footprint, and energy consumption
4	[redacted]	Bellarmine College Prep.	Enhancing Diagnosis of Temporal Lobe Epilepsy via a Novel MobileNet-U- net Framework for Detecting Hippocampal Sclerosis
4	[redacted]	Marin Academy	Associations Between Life Events and Structural Brain Morphometry in NAPLS3 Individuals at Clinical High-Risk for Psychosis and Healthy Controls
4	[redacted]	Nueva High School	Smarter Soil Batteries for Real Sensors