



CITY OF  
**PALO  
ALTO**

## City Council Staff Report

**Report Type: SPECIAL ORDERS OF THE DAY**

**Lead Department: City Clerk**

**Meeting Date: March 20, 2023**

Report #:2302-0993

### TITLE

Santa Clara County 2022 Synopsys Championship Science Fair 2022 STEM Winners from Palo Alto

### BACKGROUND

The Santa Clara Valley Science and Engineering Fair Association (SCVSEFA) is asking the Mayor and City Council to recognize these students as the 2022 STEM Winners from Palo Alto who participated in the Santa Clara County 2022 Synopsys Championship Science Fair, held in March 2022:

Name	Project Title
Miriam Goldhaber-Fiebert	Milk Dispensing Spoon
Ian Aguilar-Hwang	RoboTrash: Building a cleaner future with computer vision, machine learning, and robotics
Omar Azab	How Winglets Effect Drag on Airplanes
Anika Datta	What is the effect of different materials to delay the melting of ice?
Carina Gross	Device to Translate Musical Notes Into Computer Commands
Roy Gross	VADAR: Vortex Array Detection And Ranging – Novel sensing and communications using Orbital Angular Momentum of EM waves
Siddharth Gupta	How Winglets Effect Drag of Airplanes
Eli Kozodoy	A Device To Keep Glasses Fog-Free
Lia Maydan	Tempering Chocolate Machine
Maya Mazin	Soil, Hydroponics, Plants, and CO2
Johnathan Mo	Using an Ensemble of GANs and CNNs to More Accurately Diagnose Skin Conditions in Diverse Skin Types
Adrit Rao	Enabling Ankle-Brachial Index Prediction from Dopplers using Deep Learning for Peripheral Arterial Disease Diagnosis
Orli Roy	Milk Dispensing Spoon
Henri Sayag	AI-based computer interface for enhanced accessibility
Stella Su	Domain-agnostic Self-Supervised Contrastive Learning for Computational Histopathology

Pavlo Tkach	How Winglets Effect Drag on Airplanes
Aleksey Valouev	Using Machine Learning to Predict Wildfire Patterns
Vivian Wu	Investigation of changes in foraging activity and learning behavior in honey bees following miticide treatment
Jonathan Xue	Applying Differential Privacy to Data-Driven Algorithms Using Transfer Learning from Advanced Natural Language Models

**ATTACHMENTS**

None.

**APPROVED BY:**

Lesley Milton