



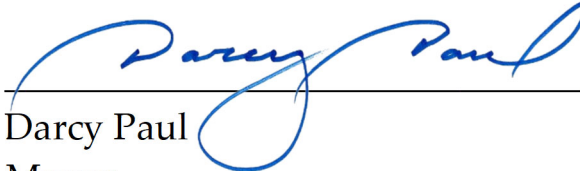
Certificate of Recognition

Presented to

Ashwika Agrawal

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“A Low-Cost Computer-Aided Lung Auscultation Apparatus
and Automated Diagnosis of Respiratory Illnesses.”


Darcy Paul
Mayor



Certificate of Recognition

Presented to

Kaushal Amancherla

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Machine Learning Model to Detect Diabetic Retinopathy in Eye Images.”


Darcy Paul
Mayor



Certificate of Recognition

Presented to

Advaith Anand

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Comparing Milk Protein: A1 vs A2 Milk Using *Drosophila Melanogaster*.”


Darcy Paul
Mayor



Certificate of Recognition

Presented to

Anagha Badriprasad

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“GleasonNet: a Novel Explainable Histopathologic DNN
for Prostate Cancer Stratification and Decision Support.”


Darcy Paul
Mayor



Certificate of Recognition

Presented to

Srushti Batni

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“The Effect of Decreased pH Levels on Haliclona Caerulea as a Model
of Ocean Acidification on the Porifera Species.”


Darcy Paul
Mayor



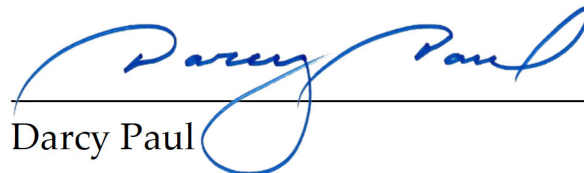
Certificate of Recognition

Presented to

Manasa Hari Bhimaraju

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Atmosome: A Comprehensive Approach to Understanding the Personal Atmospheric Exposome.”



Darcy Paul
Mayor




Certificate of Recognition

Presented to

Sriram Venugopal Bhimaraju

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“SAAGARA: A 2-Pronged Solution to Protect Coral Reefs
with a Sunscreen Analysis App & Ocean-Safe Chemical-Absorbing Beads.”


Darcy Paul
Mayor




Certificate of Recognition

Presented to

Ava Tan Bhowmik

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Developing a Home-Built Metrology to Analyze Oral Fluid Droplets and Aerosol
and Evaluate the Efficacy of Mask Materials.”


Darcy Paul
Mayor




Certificate of Recognition

Presented to

Rohan Tan Bhowmik

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“A Novel Spatio-Temporal Artificial Intelligence Network
for Respiratory Disease Exacerbation Prediction and Telehealth.”


Darcy Paul
Mayor



Certificate of Recognition

Presented to

Gaia Buller

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Effect of Octocrylene and Changes of Temperature on Zooxanthellae Cells
to Model the Harm of Common Sunscreen Ingredient.”


Darcy Paul
Mayor




Certificate of Recognition

Presented to

Richard Ruichi Cao

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“A Visual Speech Recognition Algorithm Using an Automated Lip Reader.”



Darcy Paul
Mayor




Certificate of Recognition

Presented to

Orchita Chakraborty

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“The Design of an Oil Boom with Magnets that will
Efficiently Clean Up Ocean Oil Spills Magnetized with Nanoparticles.”


Darcy Paul
Mayor




Certificate of Recognition

Presented to

Albert Chang

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
"COVID Cases On-Site Tracking Device."


Darcy Paul
Mayor



Certificate of Recognition

Presented to

Sonia Chang

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
"COVID Cases On-Site Tracking Device."


Darcy Paul
Mayor




Certificate of Recognition

Presented to

Ansh Chaurasia

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Early Skin Cancer Diagnosis Using Convolutional Neural Networks.”


Darcy Paul
Mayor



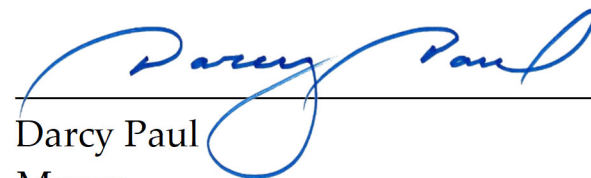
Certificate of Recognition

Presented to

Brian Chen

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Unearthing Deep Earthquakes: A Novel Visualization Method
to Detect Mantle Earthquakes Using the Sn/Lg Theory.”


Darcy Paul
Mayor



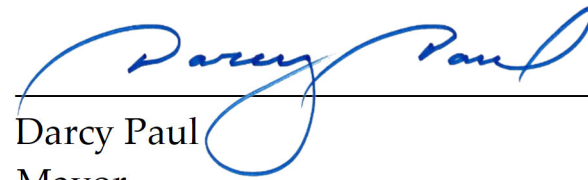
Certificate of Recognition

Presented to

Audrey Cheng

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“The Effects of Decellularization on Organ Longevity.”


Darcy Paul
Mayor



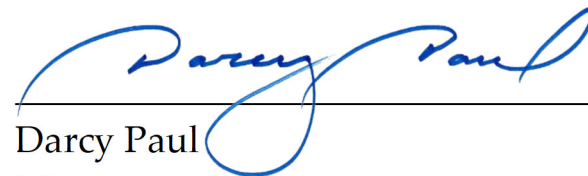
Certificate of Recognition

Presented to

Anusha Chittari

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Changing Eating Habits and Mitigating Climate Change:
A Carbon Footprint Calculator and Tracker for Varying Foods.”


Darcy Paul
Mayor



Certificate of Recognition

Presented to

Myung Suh Choi

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Modeling ADHD in Drosophila: Investigating the Effects of Glucose
on Dopamine Production Demonstrated by Locomotion.”


Darcy Paul
Mayor



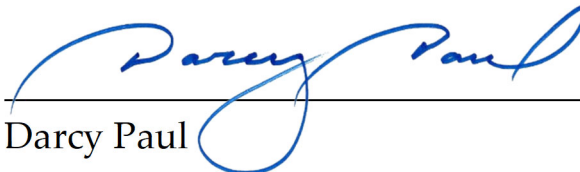
Certificate of Recognition

Presented to

Sathvik Chundru

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Signum: A Real-Time Two-Way Communication Application
Between Sign Language Users and Non-Users Using CNNs.”


Darcy Paul
Mayor




Certificate of Recognition

Presented to

Ishani Das

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“A Novel Examination of the Influence of Genes Linked to Comorbidities
on the Development of Diabetic Retinopathy.”


Darcy Paul
Mayor



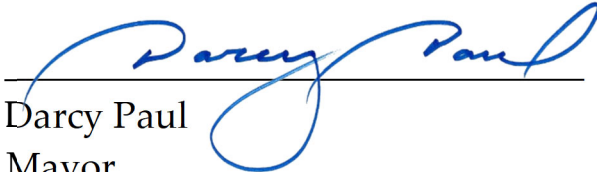
Certificate of Recognition

Presented to

Rucha Deo

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“PhysioVR: Virtual Reality App with Guided Gyroscope for Physical Therapy.”


Darcy Paul
Mayor



Certificate of Recognition

Presented to

Manasi Ganti

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Using Machine Learning to Measure and Improve Engagement in Online Learning.”


Darcy Paul
Mayor



Certificate of Recognition

Presented to

Gavin Hung

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Lightweight Rice Plant Disease Management Mobile Application
Using CNN and Leaf Color Based Nitrogen Detection.”


Darcy Paul
Mayor



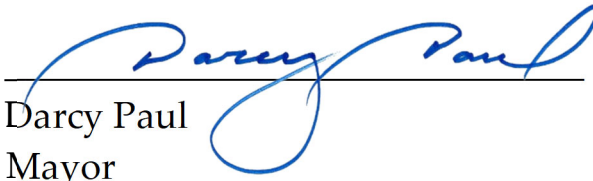
Certificate of Recognition

Presented to

Swara Kadam

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
"Seismon – An Interactive Seismic Detector to Guide Schoolchildren through Earthquakes."


Darcy Paul
Mayor




Certificate of Recognition

Presented to

Arjun Kashyap

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Using Natural Language Processing and User Feedback
to Make a Chatbot that Gives Accurate Answers to Queries.”


Darcy Paul
Mayor




Certificate of Recognition

Presented to

Karun Kaushik

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
"X-Check-MD: An AI-Based Covid-19 Diagnostics and Progression Monitoring Solution
Using Affordable Modalities like X-Rays."


Darcy Paul
Mayor



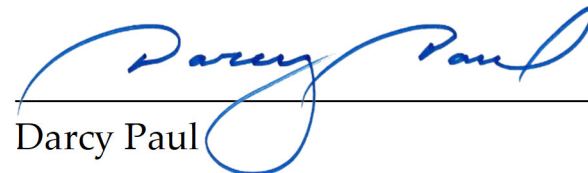
Certificate of Recognition

Presented to

Ishanvi Naina Kommula

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Mitigating Ocean Microplastics: Motorized Device to
Extricate Microfibers from Laundry Filters for Safe Disposal.”



Darcy Paul
Mayor



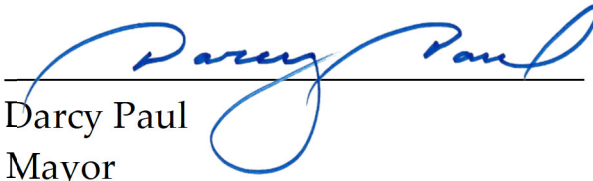
Certificate of Recognition

Presented to

Rajasi Laddha

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“The Effects of Iron and Vitamin C in Restless Leg Syndrome (RLS).”


Darcy Paul
Mayor



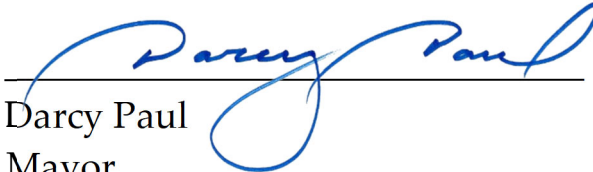
Certificate of Recognition

Presented to

Adalia Lee

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
"COVID Cases On-Site Tracking Device."


Darcy Paul
Mayor



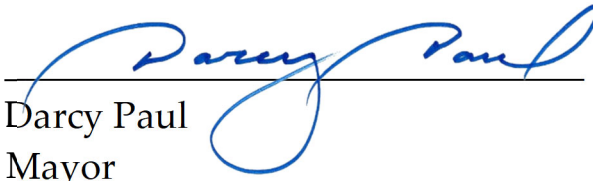
Certificate of Recognition

Presented to

Christopher Lee

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Fibrillin-2 Attenuation During Tissue Regeneration.”


Darcy Paul
Mayor



Certificate of Recognition

Presented to

Nathan Tsai Liu

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“A Scientific Method to Demystify the Lightning Caused
2020 August Complex Fire & EVT Theorem to Predict the Extreme Event.”


Darcy Paul
Mayor




Certificate of Recognition

Presented to

Alexa Lowe

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“An MFCC Spectrogram-Based Convolutional Neural Network
for Urban Environmental Sound Classification.”



Darcy Paul
Mayor



Certificate of Recognition

Presented to

Aaditya Ryan Mahajan

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
"FireBrigade."


Darcy Paul
Mayor



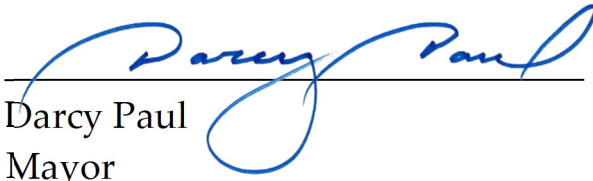
Certificate of Recognition

Presented to

Akshay Ethan Mahajan

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
"FireBrigade."


Darcy Paul
Mayor



Certificate of Recognition

Presented to

Milind Maiti

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Cardiovascular Disease Diagnosis Using Deep Neural Networks.”



Darcy Paul
Mayor




Certificate of Recognition

Presented to

Siddhartha Mishra

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Lightweight Rice Plant Disease Management Mobile Application
Using CNN and Leaf Color Based Nitrogen Detection.”



Darcy Paul
Mayor




Certificate of Recognition

Presented to

Ashika Mittal

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“The Effect of Fenugreek on the Size of Hyperglycemic Bombyx Mori Silkworms
as a Model for Hyperglycemia.”


Darcy Paul
Mayor



Certificate of Recognition

Presented to

Atreyi Leela Mukherjee

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“The Viability of Hydroponic Agriculture in Urban Environments Based on Water Quality.”


Darcy Paul
Mayor



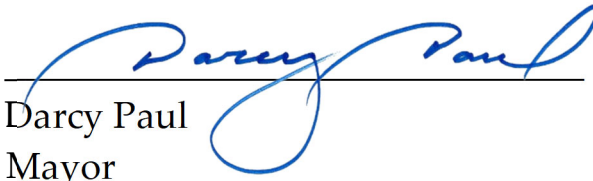
Certificate of Recognition

Presented to

Anika Kiran Nagavara

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“The Effect of Different Amounts of Potassium Iodide on Asthma in *Drosophila Melanogaster*.”


Darcy Paul
Mayor



Certificate of Recognition

Presented to

Shrinandan Krishna Narayanan

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“vAssist: A Device for the Visually Impaired to Improve In-Store Shopping
Using Computer Vision and AI Enabled Routing.”


Darcy Paul
Mayor



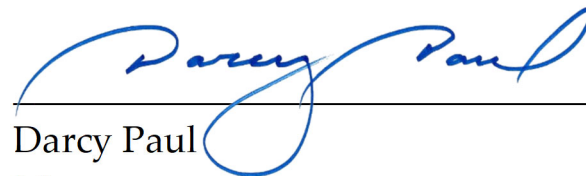
Certificate of Recognition

Presented to

Dylan Chen Ong

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Predicting Covid-19 From X-Rays with Machine Learning.”


Darcy Paul
Mayor



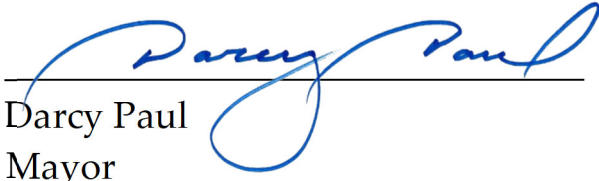
Certificate of Recognition

Presented to

Vivian Ong

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Automated Plant Growth Chamber for Locations with Low Quantities of Water.”


Darcy Paul
Mayor



Certificate of Recognition

Presented to

Rishab Reddy Perati

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Predicting the Epidemiology of the COVID-19 Pandemic Using an
Autoregressive Integrated Moving Average (ARIMA) Model.”


Darcy Paul
Mayor



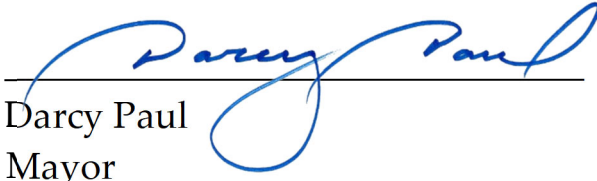
Certificate of Recognition

Presented to

Adhip Raghunathan

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Anonymously Determining Indoor Occupancy Through Human Respiration Byproducts.”


Darcy Paul
Mayor



Certificate of Recognition

Presented to

Chaitra Raghupathi

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Designing a Hydraulic Turbine to Filter Micro Plastic Produced
During PETase Degradation of Polyethylene Terephthalate.”


Darcy Paul
Mayor



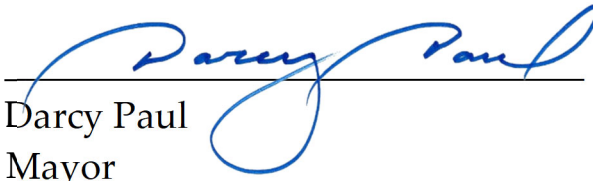
Certificate of Recognition

Presented to

Aditya Rao

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“A Deep Learning Approach to Detect and Classify Skin Cancers.”


Darcy Paul
Mayor



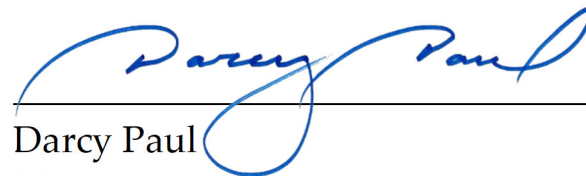
Certificate of Recognition

Presented to

Arnav Reddy

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Lightweight Rice Plant Disease Management Mobile Application
Using CNN and Leaf Color Based Nitrogen Detection.”


Darcy Paul
Mayor




Certificate of Recognition

Presented to

Sohom Roy

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Design of a Compliant Wing Mechanism Optimized for Different Conditions
with a Particle Swarm ML Optimization Algorithm.”


Darcy Paul
Mayor



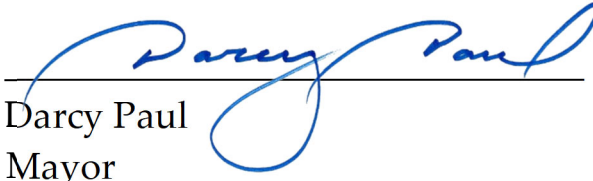
Certificate of Recognition

Presented to

Ananya Rupanagunta

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“ALS Patient Risk Stratification Using Machine Learning.”


Darcy Paul
Mayor




Certificate of Recognition

Presented to

Yashnil Saha

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Developing a Novel, Accurate Machine Learning Based
Autism Spectrum Disorder Classification Model for Toddlers.”


Darcy Paul
Mayor



Certificate of Recognition

Presented to

Ojas Atul Sathaye

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Effects of Caffeine Consumption on Food Preference and Intake
in a *Drosophila Melanogaster* Model.”


Darcy Paul
Mayor




Certificate of Recognition

Presented to

Praneel Anil Shah

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Utilizing a Bioelectrochemical System with Phototrophic Bacteria
to Generate Clean Water and Electricity.”


Darcy Paul
Mayor



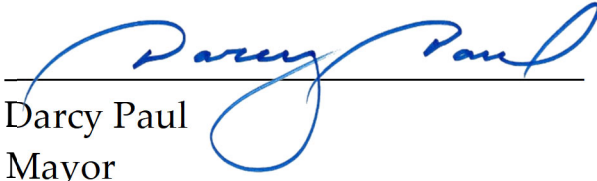
Certificate of Recognition

Presented to

Jai Sharma

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Cardiovascular Disease Diagnosis Using Deep Neural Networks.”


Darcy Paul
Mayor




Certificate of Recognition

Presented to

Vishal Shenoy

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Vascular1: Using Virtual Reality to Train Surgical Residents
in Ultrasound Guided Vascular Access Procedures.”


Darcy Paul
Mayor



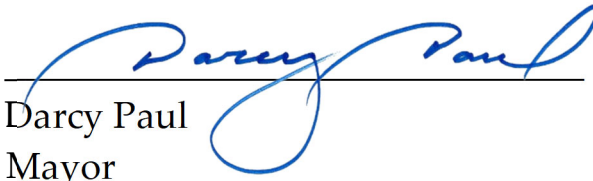
Certificate of Recognition

Presented to

Mridula Srinivasan

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Investigating the Effects of Withania Somnifera on Charcot-Marie-Tooth Type 1.”


Darcy Paul
Mayor



Certificate of Recognition

Presented to

Shridhula Srinivasan

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Investigating the Effects of Withania Somnifera on Charcot-Marie-Tooth Type 1.”



Darcy Paul
Mayor



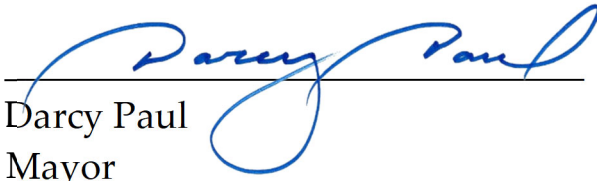
Certificate of Recognition

Presented to

Arya Shriya Srivastava

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Using Machine Learning Technology to Predict the Growth of Glioblastomas.”


Darcy Paul
Mayor




Certificate of Recognition

Presented to

Samhita Srivatsan

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“An Efficient Approach to Storage Using
Machine Learning, Image Detection and Radio-Frequency Identification.”


Darcy Paul
Mayor



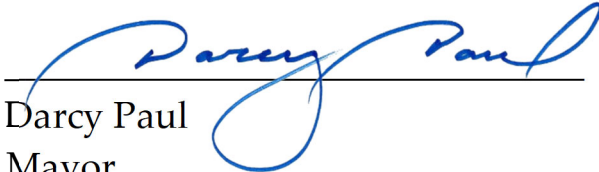
Certificate of Recognition

Presented to

Christopher T. Sun

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Cardiovascular Disease Diagnosis Using Deep Neural Networks.”


Darcy Paul
Mayor



Certificate of Recognition

Presented to

Sonia Swamy

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
"BioShield: Eco-Friendly Super-Accumulator-Biopolymer Based Heavy Metal Filter
as Plant Protector and Growth Stimulator."



Darcy Paul
Mayor



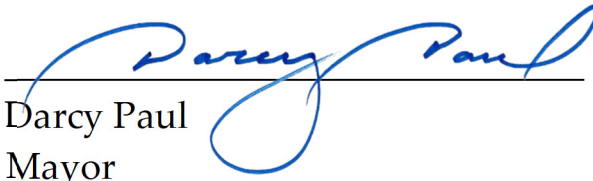
Certificate of Recognition

Presented to

Arunabh Thakuria

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
"Router vs. Walls."


Darcy Paul
Mayor



Certificate of Recognition

Presented to

Jonah Tien

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
"The Shark: An Ultra-Breathable Mask Utilizing Airflow
Based on a Culmination of Structure-Function Biomimicry Design."


Darcy Paul
Mayor



Certificate of Recognition

Presented to

Rohan Tirumala

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“The Effects of Iron and Vitamin C in Restless Leg Syndrome (RLS).”


Darcy Paul
Mayor



Certificate of Recognition

Presented to

Harmony Tse

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
"Toy Picker Upper."


Darcy Paul
Mayor



Certificate of Recognition

Presented to

Justin Tseng

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Fabric Densities Impact on Absorbency a Factor in Droplet Count,
an Indicator of Airborne Contamination for COVID-19.”


Darcy Paul
Mayor



Certificate of Recognition

Presented to

Kavya Ummethala

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Using Spectral Imaging and Machine Learning for Remote Sensing.”


Darcy Paul
Mayor



Certificate of Recognition

Presented to

Divya Venkataraman

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Application of Light Therapy on Alzheimer’s Disease by Measuring Locomotive Ability in a
Drosophila Melanogaster Model.”


Darcy Paul
Mayor



Certificate of Recognition

Presented to

Zoe H. Wong

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Characterizing Integer Sequences Using Empirical Statistical Laws.”


Darcy Paul
Mayor



Certificate of Recognition

Presented to

Claire Xu

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
"Emotion Detector During COVID-19 Pandemic."



Darcy Paul
Mayor



Certificate of Recognition

Presented to

Amy Zheng

December 21, 2021

In recognition of your performance in the Santa Clara County
2021 Synopsys Championship Science Fair with your project
“Analyzing the Effects of Spatiotemporal Variability of Vegetation
on the Intensity of Wildfires Using Satellite Imagery.”


Darcy Paul
Mayor