

# SURYA DANTULURI

## Machine Learning and Robotics Researcher, Full Stack Developer

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## EXPERIENCE

### President and Founder

#### Monta Vista Zero Robotics

August 2017 - Ongoing   Cupertino, CA

- Founded Zero Robotics Club in High School to compete in the MIT Zero Robotics Challenge
- Helped team place in top 30 schools in the nation in our first year

### President and Founder

#### Reinforcement Learning Accelerator Program

May 2018 - Ongoing   Palo Alto, CA

- Founded organization backed by Google, NVIDIA, U.C. Berkeley EECS, New York University, BMW, and Tesla students and Professors.
- Leading organization to develop research projects and meet bi-weekly

## PROJECTS

### Autonomous Racing Vehicle

#### International Autonomous Robot Racing Challenge

June 2017 - July 2018

- Outscored Georgia Tech's Robotics Team at IARRC 2018 on my own
- Built a 1/10 scale Self Driving Car that navigated several different courses
- Used a Tensorflow, ROS, and OpenCV stack

### SD1 Distributed Kubernetes Server

#### Research Project

Mar 2018 - Ongoing

- Created powerful container orchestration cluster backing multiple websites
- Dynamically serves over 100,000 visitors

### WhatBin iOS App

#### Civic Engagement Project

Mar 2018 - Ongoing

- Identifies which bin to put your trash in
- Uses a novel Machine Learning model for material detection
- Reduces contaminated recycling

### QuizAR: In-Browser App that helps treat Alzheimer's patients

#### Open Source Project

Jan 2018 - Mar 2018

- Built an ultra-fast in-browser app with Javascript and React.js
- Allows users to place cards in AR in living spaces to create memory palace

## ACCOMPLISHMENTS



### Outscoring Georgia Tech's Robotics Team

Built a robot that outperformed GA Tech's robot at IARRC 2018



### Speaker at MuPy at MIT

Presented on Reinforcement Learning, its uses and applications and an introduction to OpenAI Gym.



### Speaker alongside Jeff Dean and Peter Norvig

Spoke at HailCon alongside Jeff Dean and Peter Norvig

## STRENGTHS

Hard-working

Eye for detail

Motivator & Leader

Robotics

Embedded Systems

Computer Vision

## LANGUAGES/LIBRARIES

Python/Java/C++



Fullstack Development



Tensorflow



ROS



## EDUCATION

High School Diploma

#### Monta Vista High School

Aug 2016 - June 2020 (Expected)

Concurrent Enrollment

#### De Anza College

Dec 2018 - June 2020 (Expected)

## PUBLICATIONS



### Journal Articles

- Dantuluri, Surya (2018). "Rapid Autonomous Car Control based on Spatial and Temporal Visual Cues". In: eprint: [arXiv:1807.08233](https://arxiv.org/abs/1807.08233).