

Arjun Caputo

| Tucson, AZ | acaputo@ucsd.edu | github.com/arcaputo | arjuncaputo.com |

EDUCATION

University of California San Diego

B.S. in Electrical Engineering, Spec. in Machine Learning and Controls

La Jolla, CA

May 2029 (Expected)

Relevant Coursework: Calculus 1-3, Linear Algebra, Differential Equations, Statistics, Mechanics, Electricity & Magnetism, Intro to Programming in C

BASIS Tucson North

High School Diploma

Tucson, AZ

May 2025

EXPERIENCE

QODED Summer Research Experience

University of Arizona, Systems & Security Lab

June 2025 — July 2025

Tucson, AZ

- Researched digital twin technology using SIF-400 testbeds for Industry 4.0 technology
- Developed custom dashboard with MCP integration for detection and prediction of faults in industrial systems to reduce system downtime

Shop Worker

Traxda

Feb 2025 — Aug 2025

Tucson, AZ

- Responsible for cutting, welding, and powder coating parts for custom aftermarket automotive kits
- Managed and revised production schedule for greater efficiency and reduced metal waste

STAR Lab Student Researcher

University of Arizona, PRISM Lab

Sept 2023 — Mar 2024

Tucson, AZ

- Researched cybersecurity vulnerability prevention and large language model use for diagnosing and mitigating cybersecurity weaknesses
- Successfully produced a predictive framework to generate a summary of the likely weaknesses of a user's system and possible mitigation strategies

Computer Vision Developer

FIRST Robotics Competition

Jan 2023 — Nov 2023

Tucson, AZ

- Made hardware and software decisions for a custom computer vision pipeline
- Developed on-the-fly driving routine, using AprilTag detection algorithms for localization
- Successfully implemented computation on Beelink Mini PC, decreasing latency by 128%

LEADERSHIP

DevOps Lead, Team Captain, Drive Team Lead

Bit Buckets Robotics

Aug 2023 — June 2025

- Managed and maintained public code base including handling pull requests, merge conflicts, and GitHub issues
- Worked on public documentation and resources for STEM outreach and funding opportunities
- Created multi-year training plans for on-boarding and teaching students software, mechanical, and electrical skills

Class President

Student Council

Dec 2024 — June 2025

BASIS Tucson North

- Communicated and worked with school admin for school wide projects
- Led groups of volunteers for extracurricular activities

SKILLS

- **Programming Languages:** C, Java, Python, Typescript, Javascript
- **Technologies:** React, Tailwind CSS, InfluxDB, Grafana, Git, OnShape, Arduino