

High school junior on a dual degree track (Associate's in Electrical Engineering and Biology) with interest in computational neuroscience, engineering and robotics.

SKILLS

- Python, C++, Unity with C# (Basic Level), JavaScript, Electron, React, and PouchDB.
- Mechatronics
 - Prototyping using Fusion 360
 - Raspberry Pi and Arduino
- OS & Version Control: Windows, Mac, Robotic Operating System, Git
- Project Management (Basic)
- MS Office and Google Suite Applications

EDUCATION

Mission Early College High School, Mission College (Dual Degree) Santa Clara, CA Aug'23 – Present
Associate of Science in Electrical Engineering; Associate of Science in Biology

Current GPA: 4.6 (weighted) / 3.87 (unweighted)

Relevant Coursework: Multivariable Calculus, Data Science, Engineering Physics: Mechanics w/Lab, Intro to College Biology w/Lab, Biological Anthropology w/ Lab, General Chemistry H w/Lab, Computing for Engineers, C++ Programming

Courses, Workshops & Certifications

- [Introduction to Mechanical Engineering Design and Manufacturing with Fusion 360](#) (Honors), Autodesk June'23-July'23
- [Introduction to Docker](#), Google Cloud via Coursera, July'23
- Design Thinking from Stanford Univ Design school
- Introduction to Cellular Medicine workshop at Rosetta Institute of Biomedical Research Jun'23

Internships, Research and Capstone Projects

- **NASA Full-Stack Development Internship; June' 25- Aug' 25**
Built GUI for aviation safety management system. Simulated hazard interactions between human operators, autonomous systems, and hardware.
- **Research Intern at Harvard Medical School, Dettmer Lab; Nov '25 - Present**
Quantifying microscopic alpha-synuclein inclusions using Python: OpenCV, Pandas, NumPy. Used the image pipeline to generate structured datasets involving inclusion count, percent area, intensity, spatial coordinates and overlays.
- **Independent Research [Computational Neuroscience] under Dr. Gaurav Sharma; Jan'26 - Present**
Studying the effects of aptamers on high-grade meningioma by modeling the SCL7A1 protein and performing molecular docking to evaluate targeting strategies. Presented at UCSF-Berkeley Frontiers in Computational Precision Health. Tools: HDock, NUPACK, AlphaFold, ChimeraX, GeneSilico
- **AI Humanoid Robotics Intern, Evodyne Robotics; Aug' 25 - Present**
Involved in machine learning development of computer vision tasks for physical AI applications.
- **Galaxy Explorer (Volunteer/Intern program) Chabot Space Museum, Oakland, CA; June'24- Present**
Electronics, CAD & Prototyping and Climate Technology Inquiry Team: Executed multi-disciplinary research in astronomical imaging of M31* star clusters via JS9 and quantitative field ecology at Joaquin Miller Park (Oakland) using the Point-Line Intercept method to analyze native species resilience. Engineered an autonomous rover from Scratch, utilizing CAD and 3D-printing to iterate through chassis designs and functional intake mechanisms. Led STEM outreach and science demonstrations for the public audiences.
- **Life Sciences Research Program, iStartValley; Jan'24 - Apr'24**
Conducting a capstone project to investigate the impact of a virtual reality (VR)-inspired environmental enrichment rehabilitation protocols.
- **Startup Internship (ImmersifyVR Team), Applied Computing Foundation; Oct'23-May'24**
Built VR platform prototype with team size of 4 for Seniors with disabilities to improve cognitive memory.
- **iStartValley Business Accelerator; June'23-October'23**
Drove regional innovation through research, trends, and business-technology ideation, leading a team of interns to deliver weekly results. Incubated a startup on Neurological Music Therapy using AI/ML that won multiple awards.
- **Research proposal submitted at International Youth Neuro Association (IYNA) Ideathon'24: "Can Compromised Glymphatic Clearance Drive Neuroinflammation in Alzheimer's Disease".**

Awards

- ✓ Principals Honors Award and Mission College Dean's list -9th & 10th grade.
- ✓ President's Volunteer Service Award -Gold Received for my participation and service to iStartValley organization.
- ✓ Santa Clara Univ Broncos Startup Cup High School 1st Place, People's Choice & Most Innovative Startup & 2nd place at Youth Entrepreneurship Summit awards for my idea on Neurologic Music Therapy using AI/ML.