

Kale Suarez

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Objective Statement

Stanford First-Year Undergraduate pursuing a B.S in electrical engineering looking to pursue an internship to help contribute to new cutting edge research and hardware development of hardware technologies.

Education

Stanford University | Stanford, CA

Pursuing B.S in Electrical Engineering | Class of 2029

Relevant Enrolled Coursework:

- ENGR 40M: An Intro to Making: What is EE
 - Electrical Theory, Arduino Projects, Soldering, Power (Projects in Progress)
 - “Useless Box”: Used switches, transistors, motors, digital logic, arduino mini.
 - LED Display: Used multiplexing to control LED display using microcontroller.
 - Electrocardiogram: Built signal amplifier to magnify cardio-electrical signals.

Illinois Math and Science Academy | Aurora, IL

Awarded high school diploma in May 2025.

Relevant Experience

IT Intern | Elgin, IL Police Department | June - August 2022

- Assembled 14 personal desktops and installed Windows OS for office use.
- Maintained electrical panels on Axon radio systems on police squad cars.
- Maintained police station radio inventory using Microsoft Excel.
- Troubleshooted common Windows OS issues for police staff.

Electrical Lead | First Robotics Competition (FRC) | April 2022 - May 2025

- Taught electrical theory, robot wiring, safety, and collaborative skills to a team of 15 electrical-subteam members on high school FRC team.
- Reached FRC World Championships in 2025.
- Used Phoenix Tuner diagnostic tools to identify problems with robot electrical panel CAN bus.
- Worked with various motors/motor controllers, microcontrollers, buck converters, and pneumatic systems.
- Collaborated with mechanical and programming subteams to ensure robot functionality.

Senior Patrol Leader | Boy Scouts of America | August 2019 - December 2025

- Mentored and collaborated with scout troop of 14 boys in community service, citizenship skills, camping skills, and leadership.
- Facilitated environmental creek cleanup efforts in Elgin, IL.
- Facilitated food drives and clothing drives in collaboration with the Helping Hands foundation in Elgin, IL.

Hard Skills

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| • Microsoft Excel | • Linear Algebra/MATLAB (Onramp certificate) |
| • Google Suite | • Ubuntu Linux Operating Systems |
| • Python, Java, C# | • Windows Operating Systems |
| • Object-Oriented Programming | |