

Kale Suarez

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EDUCATION

Stanford University

Bachelor of Science | Electrical Engineering

Relevant Coursework: An Intro to Making: What is EE

Stanford, CA

Expected June 2029

Illinois Math and Science Academy

Highschool diploma

Relevant Coursework: Introduction to Electronics, Calculus-Based Electricity & Magnetism

Aurora, IL

May 2025

TECHNICAL EXPERIENCE

First Robotics Competition - Team #2022

Electrical Lead

Aurora, IL

April 2022 - May 2025

- Taught electrical theory, robot wiring, safety, and collaborative skills to a team of 15 electrical-subteam members on high school First Robotics Competition team.
- Used Phoenix Tuner diagnostic tools to identify problems with robot electrical panel CAN bus, mitigating failure points of robot performance.
- Assembled electronic panels for team robots using raspberry pi boards, low-power motor controllers & devices, and pneumatic systems.
- Collaborated with mechanical and programming subteams to ensure robot functionality.
- Reached First Robotics Competition World Championships in 2025.

Elgin Police Department

IT Intern

Elgin, IL

June - August 2024

- Scheduled and coordinated the assembly of 14 Alienware desktop computers for police investigative units, allowing for efficient performance in video footage processing.
- Troubleshoot and set up electrical panels for Axon police vehicle radio & camera systems, permitting reliable communication between patrol vehicles and police department.
- Verified and organized police inventory of all police-issued radio devices using serial number tags using Microsoft Excel, ensuring streamlined and accurate device issuing.
- Troubleshoot common windows errors and reinstalled windows operating systems on police staff devices, preventing breaks in department services.

LEADERSHIP

Boy Scouts of America

Senior Patrol Leader

Elgin, IL

August 2019 - December 2024

- Mentored 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.
- Earned Eagle December 2024.

SKILLS & INTERESTS

- Office Software: Microsoft Excel, Google Suite
- Languages: Python, Java, C#
- Object-Oriented Programming
- Linear Algebra/MATLAB (Onramp certificate)
- Operating Systems: Ubuntu, Windows