

## Spencer Farley

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### Objective

Eager to learn and driven to contribute to customers' needs, I am seeking an opportunity to apply my knowledge and develop new technical skills working in a supportive team environment. I care about the teams I work with, the projects I work on and the customers that I help deliver quality results to.

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### Experience

#### ***Optikel Instruments***

01/25 - 05/25

As part of a four-person team, I contributed to the development of Python-based software designed to control a motorized module. This involved utilizing quaternions and matrix calculations to achieve precise rotation around a central point, based on x, y, z, pitch, yaw, and tilt coordinates. The intended application for this stage is in the manufacturing of printing wafers and other circuitry.

#### ***FRC Iron Claw Robotics Team 972, Los Gatos High School***

08/17 - 05/19

Our team won the FIRST Robotics Competition 2019 San Francisco Regionals and competed in the Houston 2019 Championships. My contributions included designing and manufacturing robot components using Autodesk 3D CAD, wiring the robot's Power Distribution Panel (PDP) and organizing fundraisers for our competitions.

#### ***Loaves and Fishes Family Kitchen***

02/17 - 05/19

As a volunteer at this non-profit food bank, I participated in community gardening, assisted with food preparation, provided food service as a waiter and aided in food distribution to those in need.

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### Education

***ISC2*** - Certificate of Cybersecurity - In Process

07/25 - 09/25

***Lewis and Clark College*** - School of Mathematics and Computer Science

09/22 - 05/25

Bachelor of Arts, Computer Science, GPA: 3.8 Magna Cum Laude

***University of California, Santa Cruz*** - Department of Astronomy & Astrophysics

09/21 - 06/22

***West Valley College/Los Gatos High School*** - Middle College/Running Start

09/17 - 05/21

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### Technical Proficiencies

- Programming Languages: CSS, HTML, PHP, SQL, Python, Java, and C
  - Advanced Graphics: Computations using matrices and 3D ray tracing
  - Cybersecurity: Experience with Wireshark, penetration testing, SQL injections; participant in the National Cyber League cybersecurity competition
  - Data Analysis: Organization and management of large data sets and documents in Microsoft Office 365 and Google Suite (programming with Sheets and Excel); Statistical analysis skills including ANOVA
  - Physics & Engineering: Experience in physics engineering and physics problem solving
  - Fabrication & Design: Robotics, electrical, manufacturing, welding, soldering, 3D CAD modeling
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### Past Projects & Hobbies

- Scrabble in Java
- 3D ray tracing graphics in C
- Light bending model around a supermassive object in C
- Qwixx board game in Python
- Dog/cat image sorting AI in Python