

Astrid Delestine

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Education

Oregon State University

Bachelor of Science: Electrical and Computer Engineering. GPA: 3.38

Corvallis, OR

March 21 2025

Relevant Coursework: Microcontroller System Design, Computer Org & Assembly Lang, VLSI System Design, Network Security, Electromechanical Energy Conversion, Transmission Lines, Operating Systems

Bishop Blanchet High School

GPA 3.64, With Honors. FIRST Robotics 1st Place in District

Seattle, WA

June 2020

Experience

Leviton

MECOP R&D Firmware Engineer

Eugene, OR

June 2024 – December 2024

- Researched two distinct types of Micro-electromechanical system microphones
- Implemented pulse density modulation decoding at a firmware level to sense human occupancy in a room
- Improved existing pulse density modulation decoding codebase, decreasing code use by 10,000+ lines
- Developed an object-oriented project path, incorporating light switches, light-emitting diodes, and microphones, resulting in a reduced-cost Bluetooth light control unit.
- Collaborated utilizing the Atlassian (Jira) suite of tools, reinforcing interpersonal skill

Datalogic

MECOP R&D Software Engineer

Eugene, OR

April 2023 – September 2023

- Improved my knowledge of version control systems, C, C++, and C preprocessor intrinsics, to apply platform-tailored assembly instructions
- Utilized system-specific assembly instructions to parallelize mathematical operations decreasing processing time by 15%
- Created code testing infrastructure to systematically evaluate all possible values of a given operation using the Catch2 framework
- Collaborated in multiple time zones on a SPRINT-style team

Leadership & Activities

Scouting America: Troop 186

Assistant Senior Patrol Leader

Seattle, WA

July 2019 – December 2019

- Assisted in leading Troop 186 in the second half of the year
- Achieved the rank of **Eagle Scout**

FIRST Robotics: Team 4682

Team Captain, Programming & Electrical Lead

Seattle, WA

January 2017 – March 2020

- Lead a team of 14-19 high school students to design a 5000\$ robot over 10 weeks
- Developed skills in Fusion 360, Rhino CAD, Eclipse, Visual Studio Code, basic panel wiring, Lab-view, and Java to design, program, and wire the robot

Skills & Interests

Projects: Remote Desktop Access Terminal: designed schematic and PCB layout for a cellular-powered computer
Fish Tank Monitor: independent water monitoring system for a hobby fish tank

Laboratory: Advanced Soldering, Oscilloscope, Power Load calculation.

Technical: Advanced C, C++, Java, Fusion360, KiCad, Python, Meson, Linux, Windows, Mac OS
Intermediate Verilog, VHDL, Adobe Creative Suite, HTML, CSS, SQL

Interests: Laptop Design, Open source, 3d Printing, Volleyball