Astrid Delestine
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Objective:
To apply my practical hardware expertise and exceptional interpersonal skills in a dynamic and impactful engineering role.

Education:
Bachelor of Electrical and Computer Engineering (expected graduation Spring 2025) Oregon State University, Corvallis, OR.

Professional Work Experience:

Leviton Manufacturing, 10385 SW Avery St, Tualatin, OR June 2024 – December 2024
R&D Engineer Intern

- Contributed to research and development of microphone-based occupancy sensing.
- Assisted in the design and testing of new products.
- Developed firmware and drivers for light switches, light emitting diodes, and microphones.
- Assisted colleagues in debugging and problem-solving regarding networking and Bluetooth firmware and drivers.
- Worked On a SPRINT style Team utilizing the Atlassian suite

Datalogic, 959 Terry St, Eugene, OR April 2023 – September 2023
Software R&D Engineer Intern

- Developed software solutions for proprietary R&D projects.
- Created extensive testing tools to prove accuracy of the vectorized math acceleration library.
- Optimized mathematical image processing algorithms using C code style processor intrinsic instruction sets.
- Worked On a SPRINT style Team using Gitlab

Oregon State University, **College of Forestry**, Corvallis, OR February 2023 – March 2025
(Off and on for 2 years)
Student IT Specialist

- Provided IT support to students and faculty.
- Managed and maintained computer systems and networks.
- Provided support for MacOS and Windows systems
- Assisted students with programming problems in their homework.

Marketplace West, Oregon State University, Corvallis, OR November 2021 – March, 2022
Food Service Worker

- Assisted in food preparation and service.
- Maintained cleanliness and organization of the dining area.
- Managed delivery of food using robots created by Starship Technologies.

Metropolitan Market, 5250 40th Ave NE, Seattle, WA July, 2018 – October, 2022

Front End Associate

- Provided excellent customer service.
- Handled cash transactions and managed inventory.
- Bagged groceries, provided item location assistance, and assisted with the sale of liquor.
- Occasionally designated as the person in charge of the store if management was unavailable.

Camp Parsons, BSA Scout Camp, 970 Bee Mill Rd, Brinnon, WA
https://www.campparsons.org/
July, 2017 – August, 2018
Camp Counselor

- Led activities and ensured the safety of campers.
- Fostered a positive and engaging camp environment.
- Worked officially as a climbing counselor, at the climbing tower.
- Preformed various song and dance routines.

Skills:
Signal Processing, Error Catching, Meson Builds, Catch2, C, C++, ARM, RISC-V, x86/x64, i386, Motor Control (Robotics), PCB Design, Microsoft Office (MSO), CICD, Computer Aided Design (CAD), C style Preprocessor Intrinsics, IT Support and Troubleshooting, Customer Service, OPSEC, Microphonics, Driver Development, Verilog, System Verilog, VHDL, GIT, KiCAD.

Achievements:
- Eagle Scout, Scouting America.
- Hoffman Construction Process Excellence Award: Hoffman Construction.

Projects:
Junior Design Project:
Along with 3 other students, we created a 2-axis Selective Compliance Assembly Robot Arm (SCARA) in 10 weeks.

Senior Design Project:
Working with 2 other students, we created an open source, open hardware, fish tank monitoring system. It was able to monitor the temperature and chemical levels of the fish tank and warn the user of higher than expected or lower than expected values. This project was completed in over 30 weeks or approximately 7 months.

Project Course (In progress):
Over 10 weeks and an expected average of 120-160 hours, I will create my own custom laptop of sorts. The primary use case will be to access servers I have placed at my home or in a server farm facility running various operating systems. Additionally, I have set the following project constraints:
1: The project will have a custom designed keyboard
2: The project will have an integrated custom battery design, created for this project, not using any consumer parts
3: The project will have a water-resistant enclosure
4: The project will be able to operate using either usb power c power delivery, or via an internal battery.

Personal Website: I created a personal website and email for my family. You can view it here at www.delestine.com