Alison Tea

alisonltea@gmail.com | (425)-614-8606 | linkedin.com/in/alisontea/

EDUCATION

University of Washington **Seattle, WA**

B.S. in Electrical and Computer Engineering *Expected Graduation: June 2025*

- **Concentrations:** Machine Learning and Embedded Systems
- **Related Coursework:** Data Structures & Algorithms, Computer Architecture, Computer-Communication Networks, Embedded Systems, Network Security & Cryptography, Programming Signal Processing, Digital Circuits & Systems, Fundamentals of Electrical Engineering, Object-Oriented Programming, Technical Writing

WORK & PROJECT EXPERIENCE

Software Release Engineer Intern | PACCAR *June 2024- Sep 2024*

- Led end-to-end software release deliveries across PACCAR's 14 product lines, tracking embedded software development, testing phases, and defect resolution using Agile Scrum methodologies
- Collaborated with cross-functional teams (engineers, project managers, production) to identify and solve defects for the digital display's DevOps software code, ensuring optimal performance
- Conducted software integration testing via Jenkins, Azure DevOps, and Vector CANoe for CI/CD pipelines to resolve defects in CAN BUS (J9139) systems
- Interpreted 50+ chassis orders to generate Bills of Materials (BOMs), customizing vehicle configurations to ensure seamless software-hardware compatibility for PACCAR's clients

Embedded Alarm System Project | EE474 Intro to Embedded Systems *Feb 2025*

- Designed and developed an embedded alarm system using FreeRTOS and two ESP32 microcontrollers to detect environmental hazards, including floods, fires, and break-ins, through water, temperature, sound, and motor sensors
- Implemented an LCD display using I2C communication, serving as the user interface for real-time alarm warnings
- Engineered real-time dynamic priority scheduling to manage multiple concurrent tasks, including sensor data processing, LCD updates, and serial communication

LEADERSHIP & EXTRACURRICULARS

Project Manager | UW Formula SAE Motorsports Team *Sep 2024 – Present*

- Led logistics and compliance planning for shipping the electric racecar, along with its battery and crate, to Germany for international competition
- Spearheaded digital marketing & stakeholder communications, driving sponsor engagement and brand presence

Vice President of Membership | Society of Women Engineers (SWE) *May 2024 – Present*

- Executed marketing campaigns and recruiting events that expanded membership to 500+ engineers and students
- Managed a 16-member leadership team, overseeing project execution by delegating tasks and tracking KPI's
- Developed and launched a new membership initiative (SWE Families), increasing engagement by 170+ members

Systems Engineer | UW Mars Rover Robotics Team *Jan 2024 – Present*

- Designed and developed a panoramic mast camera for a Mars rover, using OpenCV and Python to automate image stitching and enable precise stepper motor-controlled rotations for full-environment capture
- Integrated and tested real-time embedded control systems, leveraging Arduino-based firmware & I2C communication to enhance automation performance and reliability

Director of Logistics | DubHacks Hackathon (dh24.dubhacks.co) *Jan 2024 – Oct 2024*

- Directed logistics & project execution for PNW's largest hackathon (1,200+ participants), working with sponsorship, marketing, and technical teams to ensure smooth operations
- Developed structured execution plans, optimizing scheduling, resource allocation, and real-time risk management to deliver large-scale operations on time and within a $75K budget

SKILLS

Project Management: Agile (Scrum, Kanban), Atlassian Jira, Azure DevOps, MS Project, Confluence, Lean Principles
Software: Java, C/C++, C#, Python, CI/CD, Shell Scripting, Bash, Python, Verilog, FPGA, Arduino, CAN, SystemVerilog
Tools: Linux, Git/GitHub, Jenkins, Microsoft Office, VS Code, IntelliJ, AI/ML: (TensorFlow, Edge Impulse, PyTorch)