Blake Truong

Computer Engineer
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Education

Bachelors Computer Engineering – University of Washington Bothell June 2024

Relevant Courses

Java I & II, C++ Data Algorithms I & II, Software Engineering, Embedded Systems, Operating Systems, Technical Writing, Microprocessor System Design, Sensor Systems

Relevant Work Experience

- **Electrical Engineering Lab Technician** – University of Washington September 2022 – March 2024
  - Mentored students in intermediate circuit design, analysis, testing, and debugging, resulting in improved understanding and success in their projects.

- **Electrical Engineering Peer Facilitator** – University of Washington January 2023 – June 2023
  - Promoted a collaborative atmosphere by facilitating group discussions and team-building activities, fostering stronger relationships and teamwork among peers.
  - Demonstrated effective communication skills by clearly explaining technical concepts to peers, leading to improved understanding and collaboration.
  - Showcased an understanding of diversity, equity, and inclusion by adapting to diverse learning styles and backgrounds, promoting inclusiveness in group dynamics.

Projects

- **Auto-Ranging Ohmmeter**
  - Developed the algorithms for an auto-ranging Ohmmeter to automate resistor measurement.
  - Programmed the firmware for integrating with hardware components for precise readings and automated calibration. All in C++.

- **Radio Frequency Identification Punch Clock System**
  - Developed and integrated software components for an RFID-based punch clock system to accurately track employee work hours.
  - Programmed firmware for RFID reading, GPS timestamping, and data logging, ensuring seamless operation and real-time data updates.
  - Conducted comprehensive testing and system integration, achieving a fully functional prototype with reliable software and hardware interaction.

- **L0 Advanced Driver Assistance System (ADAS)**
  - Collaborated with a team to develop a Level 0 forward collision detection system.
  - Read and apply technical documentation for Zed Camera API and OpenCV to ensure accurate integration and optimal use of libraries in the forward collision detection system.
  - Overcome challenges in sensor calibration and real-time image processing to ensure accurate collision detection.

Skills

Language: Python, Java, C/C++, Z80 Assembly
Software: MATLAB, IntelliJ, Microsoft Visual Studio Code, GitHub, GIT