

Syed Yasir

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EDUCATION

University of Washington

Seattle, WA

B.S in Electrical Engineering, Department of Electrical and Computer Engineering

PROFESSIONAL EXPERIENCE

The Boeing Company

Everett, WA

Software Engineer

July 2023 – Present

- Implemented a full-stack application using .NET C# and JavaScript (Next.js and React) for processing and displaying NFS data across all airplane models, enabling airline customers to access updates and log files remotely without physical interaction.
- Developed a SQLite and Python Flask application for reading, storing, and displaying luggage tag data, enhancing luggage mapping from check-in to cargo bay and reducing instances of lost luggage.
- Created an automated repository that updates software for all non-safety-critical devices remotely, eliminating the need for physical access.

The Boeing Company

Long Beach, CA

Electrical Engineering Intern

June 2022 – September 2022

- Wrote scripts in Python and DXL to automate formatting and organization for the documentation server for 777X.
- Debugged a major update to the Flight Management Computer to ensure proper integration with 737 Max displays.

The Boeing Company

Long Beach, CA

Software Engineering Intern

June 2021 – September 2021

- Designed Bash and Python programs to sort and process historical flight data, effectively parsing through over 70 flights spanning from 1960 to 1990.
- Wrote Bash and Python programs to improve the CFD software pipeline to remove redundancies and add multi-threading.

PROJECTS

Swish Robotics

San Francisco, CA

Engineering Consultant

July 2024 – May 2025

- Developed C++ firmware and Python software for a robot that cooks meals.
- Trained AI camera model on the NVIDIA Jetson to recognize raw food and adjust cooking time accordingly.
- Designed and assembled PCBs for converting wall-power, interconnecting 12V and 5V systems, and sending low-frequency data between systems.

Battery Charging Automation

Github

React Native, Zigbee, MQTT

April 2024 – May 2024

- Created an Android application to monitor phone's charge levels and trigger a shutdown of charger.
- Setup MQTT endpoint on smart hub to take in data from Android app to then trigger a shutdown of a smart switch.

Washington Superbike

University of Washington

Electrical Team Lead, working C++ and Altium

March 2021 – March 2023

- Increased scalability of firmware by replacing basic time-triggered scheduler with Free-RTOS framework.
- Designed and implemented firmware for tracking voltage and battery charge during operation.
- Designed and assembled PCBs for shutdown-delay circuit and pre-charge circuit.

SKILLS

Programming:

C#, Python, Java, C, C++, HTML, CSS, JavaScript, TypeScript

Programming Frameworks:

.NET, React, NextJS, OpenCV, Flask, React Native, Selenium, Git, Sqlite.

Engineering Skills:

Soldering, FreeCAD, KiCAD, PCB Layout, SystemVerilog HDL, FPGA, LTSPICE.

Languages:

Workable French, fluent Hindi, fluent Urdu.