

Asher Weitz

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EDUCATION

Bachelor of Arts in Computer Science

Graduated: May 2025

Concentration in Software Application Development

Gonzaga University, Spokane, WA

GPA 3.78 - Dean's List (Fall 2022, 2024) - Presidents List (Spring 2023, 2025)

TECHNICAL SKILLS

Languages: C++, C, Python, Java, SQL, Bash

Embedded Systems: ESP32, Raspberry Pi, Arduino, I2C/SPI, Serial Communications, GPIB, SCPI

Frameworks & Tools: Git, GitHub, Docker, Qt, Flask, Socket.IO

Operating Systems: Linux, Windows

Concepts: Agile, Embedded Software, Multithreading, RTOS concepts, Debugging, OOP

EMBEDDED SOFTWARE ENGINEERING EXPERIENCE

Senior Design RF Chamber Design - Itron

C++, Qt, SCPI, GPIB, Multithreading, Windows

- Designed and implemented a Qt C++ graphical user interface for automated RF signal testing in an anechoic chamber.
- Wrote low-level C++ interfaces for serial communication to communicate with various instruments such as analyzers and antennas.
- Collaborated with electrical engineers and end users to write documentation for maintainability after handoff.

Smart Irrigation IoT System

C++, ESP32, I2C, Sensors, GCP, Grafana

- Developed an embedded C++ program for real-time soil moisture monitoring and autonomous water pump control.
- Integrated cloud logging and visualization using Grafana and Google Cloud Platform.
- Managed I2C communication and analog sampling under real time constraints.

Raspberry Pi LED Sync Interface

Python, Flask, JavaScript WebSockets, systemd

- Built a real-time bi-directional interface between a web app and Raspberry Pi LED display.
- Designed a responsive frontend and a Flask backend supporting WebSocket data updates.
- Deployed with systemd to run reliably on boot, using Linux services for robustness.

WORK EXPERIENCE

Administrative Assistant | Gonzaga School of Engineering and Applied Science | Spokane WA

6/2023 – 5/2025

- Supported day-to-day tech and operational support in a fast-paced academic office.
- Created and maintained documents using Adobe Acrobat, Photoshop, and MS Office.
- Helped coordinate and manage logistics for school-wide engineering events.

SERVICE, INVOLVEMENT, ACTIVITIES

Gonzaga Jewish Bulldogs

9/2022 – 5/2025

Gonzaga Hackathon 2023 and 2024