Benjamin Wadsworth

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Summary

Versatile Computer Engineering and Mechanical Engineering student studying at the University of Utah, with major coursework in embedded systems, VLSI, logic design, robotics, and control. With internship and personal project experience, he has experience integrating diverse systems, and learning new ideas quickly to create timely success. His senior project group is focusing on peer to peer networking for autonomous vehicles, using the sensor data from other vehicles to improve autonomous operation.

Education

Computer Engineering Major, University of Utah
Mechanical Engineering Major, University of Utah

Expected Dual-BS May 2023 | Salt Lake City UT | 3.11 GPA

- Completed significant coursework in circuits, computer architecture, and programming.
- Specialized in VLSI and Logic Design using Verilog.
- Completed additional coursework in mechanical design and control.

Work Experience

Research and Development Intern, APCO Inc

North Salt Lake UT | June 2020 to Current

- Independently researched and built new large scale software using .NET to interface industry standard control equipment with lightweight edge devices and the cloud using OPC UA and MQTT.
- Collaboratively created mixed reality HMI/SCADA systems.
- Helped specify and build embedded hardware and software for an edge data collection system.
- Identified optimizations for aging proprietary software in company-wide code reviews.
- Participated in panel building, PID tuning, PLC programming, and HMI design.

Teachers Assistant (ECE 2210), University of Utah

Salt Lake City UT | September 2020 to Current

- Created Electrical Engineering labs for use during online teaching.
- Coached students completing labs and homework and held review sessions for exams.

Relevant Skills

- Low level (Assembly, C/C++), and high level (Java, C#, Python, Matlab) software development. Significant exposure to web software development through ASP.NET.
- Xilinx and Altera FPGAs using Verilog HDL for logic synthesis.
- Analog and digital circuit design and construction, including PSPICE for simulation.
- CAD with certifications in Inventor and Solidworks