

Oliver Philipp

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EDUCATION

University of Florida

December 2024

Bachelor of Science in Electrical Engineering

GPA: 3.78

COURSE WORK

University of Florida

- Foundations of DSP: MATLAB.
- Programming 2 for EE: C++.
- Microprocessor Applications: Assembly/C/C++.
- Digital Design: VHDL.
- Real-time DSP: C++/Open CL.

EXPERIENCE

Leonardo DRS

Melbourne, FL

Associate Software Engineering Technician

May 13th – July 26th, 2024

- Directly programmed and tested military-contracted electro-optical technology, such as mounted/dis-mounted weapon sights for rifles and tanks, remote sensing devices for locating and marking targets, as well as laser-targeting systems that disrupt enemy drones.
- Contribute to the software development of a certain sub-system of a tank's main weapon sight, including making flowcharts, dataflow graphs and control flow graphs.
- Created 3 GUI applications in C# WinForms that test a specific functionality of various embedded systems by emulating a certain sub-system that would interface with the system under test, sending and receiving commands/responses and displaying meaningful information on the GUI.
- Fixed bugs in pre-existing embedded software by debugging the code on engineering test units and using a GUI to send commands and queries to the device under test to provoke the C/Eta debugger to produce errors; then using the source of the error in the code and the call stack I would modify the embedded code and re-run the debugger and repeat the same process.
- Communicating with various intradisciplinary groups that make up our design teams, including other engineers, business owners, customers, etc., as well as building relationships with my co-workers to improve the quality of the work environment.

University of Florida

Gainesville, FL

Undergraduate Peer Instructor

January 2023 – January 2024

- Graded hundreds of classwork and laboratory work submissions for two electrical/computer engineering courses, EEL 3135 Introduction to Signals and Systems and EEL 4744C Microprocessor Applications.
- Helped hundreds of students in weekly office hours, guiding them to understand the course concepts through their own discovery and further cementing my own knowledge for applications in my future career.
- Assisted in organizing laboratory sessions, meeting with students weekly to conduct demonstrations of their understanding of key laboratory concepts and giving live feedback based on their performance.
- Led practical examinations that would pressure students to get a working design under time pressure and grading only on what they've delivered by the deadline, simulating what they can expect to be asked to do in the industry.

EXTRACURRICULAR INVOLVMENT

Society of Hispanic Professional Engineers (SHPE)

Gainesville, FL

SHPE Professionalism Bootcamp

August 2022 – December 2022

- Learned useful skills in a professionalism-centered bootcamp such as the mindset to have when speaking to recruiters, how to write an elevator pitch, and how to research a company's values and interests.

Volunteering

August 2022 – April 2023

- Volunteered at many SHPE organized events where we set up activities, prepared food, and cleaned up after events, ensuring all participant have a great experience and not left disappointed.

Skills: Through-hole soldering (Advanced), Surface-mount soldering (Beginner), PLD Design (Intermediate), Linux/Git (Beginner)

Programming Languages: Assembly (Intermediate), C (Advanced), C++ (Advanced), C# (Intermediate), Java (Beginner),

Python/MicroPython (Intermediate), MATLAB/Simulink (Advanced), VHDL(Beginner), Eta (Beginner), Open CL (Beginner),