

ELI VAN TASSELL

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EDUCATION

Electrical Engineering

Minor, Computer Science | *University of Utah*

Salt Lake City, UT

SKILLS & RELEVANT COURSEWORK

Python Java C++
MATLAB

Embedded Systems
Circuit Design Theory

Verilog
Digital System Design

Jira PSpice
Power Analysis

TECHNICAL PROJECTS

Acoustic Structural Integrity Tester

Jan 2024 - Dec 2024

- Developed a non-invasive structural assessment system for wooden power poles using piezoelectric sensors and a Teensy 4.1 microcontroller for real-time data collection and analysis.
- Designed and trained a Convolutional Neural Network (CNN) in MATLAB to classify pole integrity based on acoustic signal patterns, improving defect detection accuracy and enabling automated structural assessments.

Autopods

March 2021

- Designed and implemented an automated light tracking system, integrating circuit design, software development, and 3D modeling to optimize illumination based on camera vision. Transitioning from prototype to a fully reproducible product, refining hardware and software for scalability, efficiency, and manufacturability.

RELEVANT EXPERIENCE

L3Harris Technologies | Associate Systems Test Engineer

Dec 2024 – Present

- Developed and executed test plans for complex digital and RF systems at subassembly, box, and system payload levels.
- Designed and implemented automated test scripts using Python, MATLAB, LabVIEW, and C# to optimize testing efficiency.
- Collaborated with cross-functional teams to establish and maintain a continuous test and release workflow.
- Conducted system integration, troubleshooting and identifying and resolving hardware and software trends.

Ulteig Engineers | Engineering Intern

May 2024 – November 2024

- Developed and reviewed utility substation drawings, including General Arrangements, Elevations, and AC/DC Schematics, ensuring compliance with engineering standards and client specifications.
- Acted as a technical leader on complex substation projects, planning, scheduling, and conducting detailed phases of project work.
- Provided technical guidance to other engineers, fostering a collaborative and knowledge-sharing environment within the team.

The Ritz-Carlton Bacara | Guest Arrivals Expert

August 2020 – August 2022

- Delivered a luxury guest experience, managing check-ins, special requests, and personalized services to ensure seamless arrivals and departures.
- Collaborated with concierge and front desk teams to anticipate guest needs, resolve issues promptly, and uphold Ritz-Carlton's world-class hospitality standards.

COMMUNITY ENGAGEMENT

Get Seeded | Lasonde Entrepreneur Institute

August 2022 - Dec 2024

- Secured early-stage funding through the Get Seeded program, pitching a startup concept and demonstrating business viability to a panel of investors.
- Developed and refined a business model, prototype, and market strategy, leveraging mentorship and resources from the Lasonde Entrepreneur Institute.

Orange Coast Crew Team | Orange Coast Community College

August 2018 - May 2019

- Competed as a rower in a highly disciplined collegiate crew team, developing teamwork, endurance, and strategic race execution.
- Trained rigorously in technical rowing techniques, strength conditioning, and race strategies, contributing to team performance in competitive regattas.