

LUKE WESSEL

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EDUCATION

University of Central Florida — Orlando, FL

Bachelor of Science in Computer Engineering | Expected Graduation 2028

Minor: Intelligent Robotic Systems

TECHNICAL PROJECTS

Bid Intelligence – Competitive Bid Analytics Platform

- Developed a React application that analyzes historical construction bids to model competitor pricing behavior and forecast competitive bid ranges.
- Implemented walk-forward back testing, project-size weighting, bidder-specific modeling, and model diagnostics to evaluate predictions while preventing future-data leakage.
- Building a live prediction workflow to record out-of-sample forecasts before bid opening and compare predictions against actual results.

Arduino Simon Says Memory Game

- Developed an interactive memory game using an Arduino Uno, LEDs, push buttons, and a passive buzzer with random sequence generation and increasing difficulty.
- Strengthened skills in embedded programming, digital I/O, hardware debugging, and breadboard prototyping.

Personal Engineering Portfolio Website

- Designed and developed a responsive engineering portfolio using HTML, CSS, and JavaScript.
- Showcases technical projects, engineering skills, and GitHub repositories

Java Asteroids Game

- Developed a playable arcade game using Java and object-oriented programming.
- Implemented collision detection, player controls, game logic, and score tracking.

SKILLS

- **Programming:** Python, C/C++, Java, JavaScript, MATLAB, HTML/CSS
- **Frameworks & Tools:** React, Git/GitHub, VS Code, Arduino
- **Hardware:** Digital I/O, Breadboarding, Circuit Debugging, Soldering, Electronics Prototyping

WORK EXPERIENCE

Wessel Contracting — General Laborer

2018 – 2022

- Assisted with construction projects while maintaining a safe organized job site.
- Worked effectively in a fast-paced, team-oriented environment

First Watch — Team Member

2022 – 2023

- Delivered customer service in a fast-paced restaurant environment

HPE Trade Show Runner / Electrical Assistant — Various Employers

Various Dates

- Assisted with booth setup, basic electrical work, soldering, and equipment installation.