Jacob Greenebaum

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EDUCATION

University of Cincinnati | Cincinnati, OH   May 2027
Bachelor of Science, Computer Engineering
GPA: 3.5/4.0

PROFESSIONAL EXPERIENCE

Fives Cincinnati | Hebron, KY   Jan 2025 – Apr 2025
Control Software Engineering Co-op
- Integrated a third-party SERCOS Stepper Motor Drive into a Rexroth-based controls system, expanding hardware compatibility.
- Implemented linear, stepper, and servo motors into a robotic tape laying system.

Altec Inc. | Roanoke, VA   May 2024 – Aug 2024
Analytics & Insights Engineering Co-op
- Selected as the first ever co-op for the Analytics & Insights Engineering team, joining a highly specialized group of six experts in data analytics and telematics.
- Trained individuals within the company interested in learning more about telematics data.
- Worked closely with the production team to create Qliksense tools that audited our processes, ensuring only flawless utility trucks were delivered to customers.
- Created a tool that monitors the various AWS tables used by the team, sending out daily email reports highlighting any issues.

Altec Inc. | Elizabethtown, KY   Aug 2023 – Dec 2023
Product Engineering (Data) Co-op
- Improved the battery health monitoring report, leading to $1.5 million YTD of warranty cost savings.
- Utilized telematics data housed in Amazon Web Service to develop SQL queries and Qlik Sense apps that gather and display valuable insight on an automatic daily refresh.
- Recognized in the company engineering newsletter for creating a new method of remotely detecting firmware updates on the controls system of Altec Green Fleet trucks.
- Led a presentation to the sales team showcasing a custom application I developed, delivering previously unavailable metrics with automated daily data refreshes.

PROJECTS & EXTRACURRICULAR

Smart Bartender Appliance ("cocktail-compiler" on GitHub)   Nov 2024 – Present
- Smart kitchen appliance that automatically pours beverages based on user-selected recipes.
- Integrated the CocktailDB web API to suggest new recipes based on the user-defined ingredient list.
- Consists of a 3D-printed housing, Raspberry Pi, 7" touchscreen display, custom soldered relay board, power supply, voltage regulator, and peristaltic pumps to carry out the functions of the appliance.
- Python-based GUI using PyQt6, enabling user interaction through the touchscreen display.

Portfolio Website (jacobgreenebaum.com)   Apr 2025 - Present
- A personal portfolio showcasing selected projects, co-op experience, and technical skills in embedded systems, software development, and data analytics.
- Self-hosted the site using a Raspberry Pi 4B home server running on Linux OS.

SKILLS

Programming languages: Python 3, C++, C# (.NET, WPF), MATLAB, Visual Basic, SQL, HTML/CSS
Computer software/frameworks: Microsoft Office, VSCode, VS 2022, Indraworks, Qlik, AWS, Raspberry Pi