Devin Reichenbach

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https://devinreichenbach.github.io

WORK EXPERIENCE

Electronics Engineer   May 2025 - Present
Flight Systems Industrial Products, Carlisle PA
- Diagnosed and repaired customer hardware, including motor controllers, joysticks, displays, and engine ECUs
- Built LabVIEW tool to emulate motor encoder serial communication for seamless integration with company systems..

Manufacturing Engineering Intern   January 2025 - May 2025
 Volvo Construction Equipment, Shippensburg PA
- Assist in developing an AMR to automate material transport in manufacturing
- Design and optimize layouts in AutoCAD for efficient workflow
- Program VBA macros in Excel to automate tasks and improve project tracking.
- Learn and apply MIG, Stick, and TIG welding techniques
- Reverse-engineered a range of products into 3D models using Creo Parametric, with version control through Windchill.

Shift Manager   January 2023 – January 2025
 Karns, New Bloomfield PA
- Managed teams of 5+ employees, ensuring proper store operations and consistent service across the facilities.
- Trained 10+ employees of proper store operations

RELEVANT PROJECTS:

AI Traffic Object Detection System   January 2025 - May 2025
- Trained a YOLOv8n model in PyTorch on traffic sign and light datasets for real-time object detection.
- Collaborated in a team of four to deploy the system on a Raspberry Pi Zero 2W with a Raspberry Pi AI Camera using C++.

ESP-32 Smart Christmas Lights   November 2024 - December 2024
- Set up a web server with ESP-32 for communication between user devices and WS2812 LEDs.
- Developed interactive webpage for custom color set selection by user
- Transferred data using HTTP requests to control LED colors

User Traffic Analysis Web Application – WebFX   January 2024 – May 2024
- Co-developed a web app to track and sort user paths, building interactive features with PUG
- Integrated client-server-database communication using Node.js, TypeScript, and MySQL
- Applied Agile methodology for biweekly WebFx updates

Automatic Video Facial Blurring Software (Python)   January 2024 – May 2024
- Developed a facial recognition application with a user-friendly interface to blur selected regions in video frames.

EDUCATION

Bachelor of Science in Computer Engineering,   May 2025
 Minor: Mathematics
 Shippensburg University of Pennsylvania
 Accredited by ABET, Inc. (Accreditation Board for Engineering and Technology)
 GPA: 3.930   Dean's List: 2021-2024

COMPUTER SKILLS

Programming Languages:
- C: ★★★☆☆ • Python:★★★☆☆ • HTML/CSS: ★★★★☆ • Java: ★★☆☆☆ • Typescript: ★☆☆☆☆
- Verilog ★☆☆☆☆

Applications:
- Fusion 360 ★★★★☆ • Creo Parametric ★★★☆☆ • AutoCad ★★☆☆☆ • Docker ★☆☆☆☆
- OrCAD PSPICE ★★★☆☆ • Git ★★★☆☆ • Microsoft Suite ★★★★☆

Hardware & IT:
- Microcontrollers ★★★☆ ☆ • FPGAs ★☆☆☆☆ • Linux ★★☆☆☆ • FDM 3D Printing ★★★★☆
- CompTIA IT Fundamentals (ITF+) Certificate   April 2020