

# Devin Reichenbach

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<https://devinreichenbach.github.io>

## EDUCATION

### Bachelor of Science in Computer Engineering,

Anticipated Graduation: 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

## WORK EXPERIENCE

### Manufacturing Engineering Intern

January 2025 - Present

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
- Create VBA macros in Excel to automate tasks and improve project tracking.
- Learn and apply MIG, Stick, and TIG welding techniques
- Reverse-engineered structures into 3D models using Creo Parametric

### 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

### Stock Associate

February 2022 - January 2023

Karns, New Bloomfield PA

## RELEVANT PROJECTS:

### AI Traffic Object Detection System

January 2025 - Present

- Trained a YOLOv8n model 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.
- Developed an Android app for Bluetooth communication to transmit detection data.

### 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 algorithm to blur selected regions in video frames.
- Developed a user interface for ease of use and quality presentation of the application

## 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