

# ISAIAH HENDRICK

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## WORK EXPERIENCE

### GRAND VALLEY STATE UNIVERSITY - ENGINEERING LAB SUPPORT

AUGUST 2024 – PRESENT

- PCBA design (Altium Designer)
- Maintenance on 3D printers, fulfill student/faculty 3D print requests
- Loan lab equipment to students/faculty, maintain lab spaces, maintain stock of components

### PHASE 1 ENGINEERING - COMPUTER ENGINEERING CO-OP

MAY 2022 – DECEMBER 2023

- Embedded C and Python development
- PCBA design (Altium Designer)
- Circuit design and testing, software and hardware debugging
- Assisted with logistics of project builds between customers and contract manufacturers

## EDUCATION

### GRAND VALLEY STATE UNIVERSITY

APPLIED COMPUTER SCIENCE, MS | EXPECTED : APRIL 2025

- Graduate GPA: 3.96

COMPUTER ENGINEERING, BSE | AUGUST 2024

- Undergraduate GPA: 3.781
- Frederick Meijer Honors College
- PCE Project Day Participant x2
- CIS Machine Learning/Data Mining Study Abroad (Switzerland - Summer 2023)

## PROJECTS

- Sparse Matrix Compression FPGA implementation
  - This is an ongoing project as part of my Master's project through GVSU. It includes taking an algorithm written by GVSU faculty for sparse matrix compression and creating an overlay for it on a PYNQ FPGA board from Xilinx to optimize execution time and improve performance.
- Bluetooth Communication Terminal
  - Used two MSP432 microcontrollers to create a user communication interface. This was done using a Bluetooth peripheral and UART serial terminal with each device.
- IoT Home Security Door Lock
  - Used an ESP32S microcontroller with servo and keypad peripherals to simulate a deadbolt. Included control through mobile device where user could enter passcode to lock/unlock deadbolt as well as a custom PCB.
- Sports Bet Social Media App
  - Created a simple "social media" app using React Native where multiple users could log their sports bets for other users to view. Utilized Google Firebase's cloud platform to store user data.

## SKILLS/ACTIVITIES

- C, Python, Java, JavaScript, VHDL, Verilog, ARM assembly, bash
- Altium Designer, Fusion 360
- Proficient with git version control
- Tau Beta Pi Member (Spring 2022 – present)
- BSA Eagle Scout
- Hobbies include building personal computers, hobby metal and wood working, CAD design, 3D printing, backpacking/hiking, and fishing