Nolan Adams

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(440) 941-5197   Canton, MI

EDUCATION

UNIVERSITY OF MICHIGAN-DEARBORN   Aug. 2019 – Apr. 2024

Dual degree: Bachelor of Science in Electrical Engineering, Bachelor of Science in Computer Engineering; GPA: 3.72
Notable classes: Electromagnetic Compatibility, Computer Vision

EXPERIENCE

ELECTRONIC HARDWARE ENGINEERING INTERN   Jan. 2023 – Present

Robert Bosch, LLC

- Perform worst-case circuit analysis (WCCA) on new sensor designs
- Draft requirement specifications and test plans
- Circuit design, PCB layout, assembly, and testing of CAN bus interface for lab equipment
- Perform lab testing on hardware, including line and load transient testing

APPLICATION ENGINEERING INTERN   Aug. 2021 – Dec. 2022

Robert Bosch, LLC

- Collected data in vehicles using Vector hardware and software
- Independently developed Python-based tools to assist with data analysis and visualization

RECEIVER/STOCKER   Jul. 2020 – Aug. 2021

Lowe's Companies, Inc.

- Worked with a team to sort and stock merchandise
- Operated equipment (order picker, power stocker) as needed to stock or retrieve large items

ACTIVITIES AND PROJECTS

SINGLE-BOARD COMPUTER   2022

Designed and prototyped an 8-bit computer based on the Zilog Z80; Future plans for a custom 16-bit RISC CPU

FIRST ROBOTICS   2013 – 2019

Member of FTC Team 7313 (2013-15), FRC Team 862 *Lightning Robotics* (2015-19)
Served as Electrical Team Lead (2017-18) and Control Systems Lead (2018-19)

FIRST ROBOTICS MENTOR/VOLUNTEER   2015 – 2021

Mentored students in engineering and electronics
Volunteered at various local competitions

SKILLS

Circuit analysis and design, schematic design, PCB layout, prototyping, soldering, programming (C, Python), microcontrollers
Tools: Altium Designer, KiCad, Autodesk Fusion360, MATLAB, SIMetrix/SIMPLIS, LTspice, oscilloscope
Soft skills: Communication, problem solving, leadership