YAHYA NAVEED

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EDUCATION

University of Michigan - Ann Arbor | **GPA: 3.98/4.00** **AUG 2021 - APR 2025**

- B.S. Electrical Engineering, Minor Computer Science
- College of Engineering Honors Program, Tau Beta Pi
- Awards: University Honors, Fall 2021 thru Fall 2023

Coursework:
Analog Circuits, Digital Integrated Circuits, Semiconductor Devices, Microelectromechanical Systems, Signals and Systems, Electromagnetism, Data Structures and Algorithms, Alternative Grid Energy Sources

WORK EXPERIENCE

1898&Co, Burns and McDonnell | *Power Systems Planning Intern* **MAY 2023 - AUG 2023**

- Extracted and analyzed power line location data in Excel to develop a master table that identified viable placement for lateral reclosers (TripSaver II or VersaTech) to improve grid outage reliability
- Coordinated new recloser devices with existing grid protection devices and their protection curves in TCC
- Coded an automation tool in Python to run consecutive data analysis workflows
- Generated in-house technical reports and presentations for the continuation of my work

Promaxo, Inc. | *Electrical Engineering Intern* **MAY 2022 - AUG 2022**

- Wrote instructional improvements for the development of RF Fiducial Coils, used in orienting mapped grid to patient in low-field MRI system
- Soldered and tuned fiducial resonant circuits using a Smith Chart and provided insights into optimizing the process
- Assisted with creating the preliminary set of an updated Receive Coil (Rx) design through manufacturing the circuit boards and verifying the tuning
- Wrote the portion of the manufacturing process instructions (MPI) for updated Receive Coil design on circuitry
- Implemented a progress bar tracking downloads of DICOM images, utilizing the Qt Library

EXTRACURRICULAR EXPERIENCE

Michigan Integrated Circuits Lab | *Research Assistant* **JAN 2024 - PRESENT**

- Developed modular print for acoustic sensors to characterize sound pressure environment for noise canceling applications

Oldham Research Group | *Research Assistant* **SEPT 2022 - NOV 2023**

- Investigated the usage of ultrasonic transducers to noninvasively detect an increase in intracranial pressure (ICP)
- Designed filtering and amplification circuitry to emit and receive acoustic signal within 10kHz to 50kHz passband
- Utilized LabView / Oscilloscopes and Function Generator to perform sweep tests to determine resonance of system
- Analyzed signal output through Fourier Transforms in MATLAB

Michigan Neuroprosthetics Club | *Electrical Subteam Lead* **JAN 2022 - PRESENT**

- Led the Electrical Team through mentoring members, addressing difficulties with prosthetic arm electronics, and helping project managers execute schedules
- Began research and development on the potential for the utilization of strain gauge technologies to control precision movement for prosthetic arm

SKILLS

- Communication Skills: Microsoft Suite (Excel, PowerPoint), Technical Reports
- Lab Work: Breadboard Prototyping, Soldering, Use of Network Analyzer, Oscilloscope, Signal Generator
- Coursework: Cadence Virtuoso, COMSOL, HOMER, LTSpice
- Programming: C++, MATLAB, Python