

Ali Abujamous

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Objective:

Seeking an opportunity to a full-time position in the field of Electrical Engineering to gain hands on experience.

Education:

University of Michigan-Dearborn
Bachelor of Science in Engineering

Dearborn, MI

Major: *Electrical Engineering*
GPA: *3.2 (distinction)*
Graduation year: 2018-2020

Technologies/Foreign Language:

- C++, python, MATLAB/Simulink, Assembly, Linux, PSIM
- Proficient in Microsoft Office (Excel, word, and Power Point)
- Experience with C, Code Warrior, Microsoft Visual studios
- Experience with Pspice, LT spice, Labview, Tableau, Keil.
- Experience with Oscilloscope, Digital Multimeter, Function generator
- Ability to adapt to different work environments.
- Currently work in a team-based environment at Hollingsworth logistics where we are in charge of making sure inventory is correct both on the floor and in the system.

Academic/Course Projects

Senior Design Capstone

- Designed an AI robot (Jetson nano) capable of line following, color detection, and object detection powered by ROS (robot operating system).
- Familiar with Artificial neural network.
- Gained communication and leadership skills.

Motor controller design with phototransistor

- Designed a light controlled motor that stops when illumination is high and when stalled does not exceed 150mA.
- Became familiar with circuit design and LTspice.

Renewable Electric power systems

- Used PowerWorld to analyze power systems to see power generated by slack bus and total real power loss in the systems.
- Understand three-phase power system modeling, steady state power flow analysis. Using Matlab as well to analyze power systems.

Embedded systems

- Using TM4C123 microcontroller to communicate with ultrasonic sensor.
- Set up event flags in UCos11.
- Learned serial protocols such as UART, I2C, SPI, CAN BUS.

Related Courses:

Circuits 1 and 2, Engineering probability and statistics, Computer methods, Embedded systems, Analog and digital communication methods, analog and Discrete Signals and systems, Automatic control systems, Renewable electric power systems.