

# Michael Edwards

Bartlet, TN  
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## Skills

Workplace skills: team collaboration, multi-tasking, and time-management.

Coding languages/OS: Python, Java, Matlab, VHDL, Arduino, Verilog, C, Assembly, Windows, and Linux.

Spice and CAD Softwares: PSpice, KiCad, and AutoCAD

Relevant classes: Circuits 2, Discrete Structures, Java 2, Signals 1, Digital circuit design, Intro to AI, Electronics 1, Differential Equations, Linear Algebra, Signals 2, Projects 1, Probabilistic System Analysis, Embedded Systems, Operating Systems, Engineering Design, and Intro to Microprocessors, and Computer Organization.

Current Projects: Making a 20kv rotary spark gap for a tesla coil.

Finished Projects: Team leader of IEEE Memphis Robotics Team 2020, Autonomous Robot, Q Learning AI that solves and navigates a grid world with enemies and objectives. 200mw Green Laser (See my YouTube). 1.6W 445nm blue burning laser for black plastic engraving (See my YouTube). Electrical and PCB design for a band pass filter with amplification for use on a microphone system. A wireless hand movement controlled robot arm.

Websites: <https://github.com/mdwrds14> (Code Repositories) and <https://bit.ly/2kuKFM8> (Youtube)

## Experience

Aug 2019 - Sept 2019

**UMRF Ventures, Memphis, TN - IT support**

- IT support for FedEx
- Did network printer troubleshooting in command prompt.
- Helped fedex employees unlock their accounts using machine, user, and bitlocker recovery.

June 2018 - Aug 2018

**M3 Technology Inc. - Bartlett, TN- technician**

- Ran and terminated CAT5, CAT6, coax, speaker wire, and armored fiber optic cable.
- Installed projectors, projection screens, and speakers.

May 2019 - May 2020

**University of Memphis IEEE Robotics Team Leader- Memphis, TN- Team Leader**

- Leader of IEEE Robotics competition 2019-2020.

Jan 2017 - Dec 2017

### **U of M Army ROTC- Memphis, TN- *ROTC Cadet***

- Was a member of Army ROTC for a year learning the inner workings of the branch.
- lead a mock Raid during a field training exercise.
- Was a part of the University of Memphis Ranger challenge.

## **Awards**

- Dean's list Spring 2019, Fall 2019, and Spring 2020.
- Tennessee Hope scholarship.
- Awarded most dedicated during my time in ROTC.
- Placed second in the undergraduate project, and poster competition for my autonomous robot project, at the University of Memphis.

## **Education**

Graduation: Spring 2020

**University of Memphis, Memphis, TN - *Bachelor of Science - Computer Engineering***

GPA: 3.14