

# Isaac Torres-Medrano

3066A Yorkshire Cr  
Springdale, AR

479-306-5163  
isaact@uark.edu

## SKILLS SUMMARY

---

- Programming: Proficient in C++ and Python
- Software: Proficient in Allegro PCB and OrCAD Capture CIS Editor, MATLAB, Arduino, and Microsoft Office
- Hardware: Proficient in Breadboarding and Soldering
- Language: Fluent in Spanish and English

## EDUCATION

---

### **Bachelor of Science in Electrical Engineering**

*Expected Graduation: May 2026*

*Minor in Computer Science*

University of Arkansas, Fayetteville, AR | GPA: 3.71

## PROJECTS

---

### **Astable Multivibrator**

*Sept 2023-Nov 2023*

- Designed a compact 1" x 1" PCB in OrCAD Capture CIS and Allegro PCB Editor
- Executed precise soldering of components on PCB board using Soldering Hand Iron
- Troubleshooted PCB until assembly produced square wave and controlled the oscillation of two LEDs

### **Arduino Oscilloscope**

*Sept 2023-Dec 2023*

- Developed a 3" x 2" PCB Arduino shield prototype
- Conducted comprehensive research to discern the functionality of Zener Diodes
- Conducted comprehensive research to discern the functionality of AC and DC Coupling

### **Arduino Autonomous Car**

*Dec 2023-present*

- Constructed an Arduino system of 2 Infrared Sensors, an LCD Screen, and 2 DC Brushless Motors
- Developed a program to display distance measured by Infrared Sensors
- Implemented precise activation parameters for DC motors to Actuate at a distance of 7 cm

## LEADERSHIP EXPERIENCE

---

### **Captain, Intramural Soccer, University of Arkansas**

*Sept 2023-present*

- Responsible for bringing people together to form a Coed and Division 2 men's team
- Maintained and coordinated team practices and games
- Mentored teams to achieve goal of acquiring placement into playoffs

## HONORS

---

### **Engineering Career Awareness Program**

*Aug 2022-Present*

- A nationally recognized competitive program designed to promote the success of underrepresented engineering students

### **Honors College**

*Jan 2023-Present*

- Interested in doing research in Wireless Communications, RF and Microwave Design or Integrated Circuits

## WORK EXPERIENCE

---

### **Packer, American Air Filters, Fayetteville, AR**

*May 2022-Sept 2022*

- Operated plastic wrapping machine according to manufacturing instructions
- Safely unloaded and loaded products using pallet jack
- Communicated with team leaders and production workers on the line to ensure a safe work environment