

# Audrey Timmerman

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## Summary

- Designed and layed out circuit boards using Altium for many applications
- Built 4 websites
- Supervised FLL teams of 34 middle school students, won state awards
- Traveled to Uganda to install 18 bicycle generator boards

## Education

### Candidate for Bachelor of Science in Computer Engineering

University of Arkansas, Fayetteville, AR

GPA: 3.8

May 2020

## Engineering Projects

### IR Remote with Accelerometer – Controls light wall at the Museum of Discovery

- Designed Schematics, Layout, Built and Programmed in C

### Patient Vision System – Tracks location of patient in hospital setting

- Helped write vision tracking algorithms, wrote manual, tested prototype units

### FRC Image Processor – finds light, color, movement and signals the Robo RIO

- Layed out Rev. 2 board in Altium and wrote the manual

### MXP Daughter Board and Breakout Kit- Sold to support my FRC team

- Layed out boards and wrote the manual

## Experience

### Engineering Intern: RCAL Products

Prairie Grove, Arkansas (2015 – 2018)

- Embedded C programing
- Website Support and Design
- Manufactured Circuit Board Debug
- Layed out and built circuit boards
- Designed and built test fixtures
- Reorganized and cataloged the inventory of 4,000+ parts
- Wrote production aides for the manufacturing team

### Web Consultant: Arkansas Wind and Solar

Prairie Grove, Arkansas (2015)

- Used Weebly to build website, edited photos and wrote site's content

## Leadership Experience

### Associate Instructor: Krav Maga

University of Arkansas (2016-2019)

- Teach 1-hour self-defense classes at the HPER weekly
- Teach 1-hour women's self-defense class at Wellness Center weekly
- Travel to community events to give demonstrations and talk about personal safety

### Lead Mentor: FLL Teams 16706, 16707, 16708, 18666

Fayetteville Arkansas (2015-2016)

- All four teams won an award at state
- Recruited experts to talk to students
- Supervised 34 7<sup>th</sup>-8<sup>th</sup> grade students

## Computer Skills

C++, C, Java, JavaScript, VHDL, Verilog, Altium, QuickBooks, WordPress, Gimp, Keil, MS Office

## International Experience

### Designs for Hope

(2015)

- Designed and layed out bicycle generator boards with my FRC team
- Traveled to Bwera, Uganda to install 18 working units and stayed in the town for 9 days