

Matthew Felsen

13813 Craig Street
Overland Park, KS,
66223

matthewfelsen.wordpress.com
<https://www.linkedin.com/in/matthew-felsen-612203152>

mefelsen@ku.edu
913-375-4726

Skills

C/C++, C#, Arduino, Windows Powershell, Python, MATLAB, AutoCAD, Data Structures & Algorithms

Experience

John Deere

Product Engineering Intern

May 2018 – August 2018

- Analyzed and designed Hardware in the Loop software test system architecture for next generation controllers
- Wrote and Improved scripts for Agile tools to streamline workflow
- Acquired skills in CAN protocol and Model Based Software Development

Kiewit

Electrical Design Intern

August 2015 – December 2015

- Responsible for creating and editing schematics across 2 different contracts
- Designed electrical circuits using MicroStation
- Collaborated with head Electrical Designer and Lead Engineer

Education

University of Kansas

- **B.S. Computer Engineering**

January 2018 - May 2020
3.78/4.00

Missouri University of Science and Technology

- B.S. Electrical Engineering
- Pi Kappa Alpha Fraternity

August 2016 - December 2017

Projects

LED Pace Clock

- LED strip designed to run at a certain speed to keep pace for timing-based sports like Swimming and Track
- API made in C# sends data to microcontroller
- Microcontroller firmware written in C++ reads data from API

Window Weather Vent

- Window insert that automatically controls air flow from atmosphere to room based on temperature and humidity data
- **Provisional Patent** filed to demonstrate proof of concept
- Lead Electrical Engineer who oversaw 4 members on electrical team

Laser Harp

- MIDI instrument designed for musicians with disabilities.

Activities

Missouri S&T Swim Club **President & Founder**

- Founded and led organization of 60 recruited members
- Oversaw 5 executive officers
- Facilitated communication between 20 teams
- Responsible for \$6,000+ annual budget

Institute of Electrical and Electronic Engineers (IEEE)