


# James Mendel

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## EDUCATION

### University of Kansas, Lawrence KS

#### Electrical Engineering, Bachelor of Science

- University of Kansas Honors Program
- University of Kansas Vann Family Future Leaders Fellowship
- University of Kansas School of Engineering Honor Roll
- Garmin Excellence Scholarship

**GPA: 3.80**

Expected May 2023

2019 - Present

2019 - 2021

2019, 2020

2020

## EXPERIENCE

### Medtronic, Santa Rosa, CA (Remote)

Jun 2021 - Aug 2021

#### Manufacturing Engineering Intern

Full Time

- Automated calculation of a key business metric by creating VBA macros in Excel to extract and analyze thousands of data points and reduce labor by >95%
- Planned project using DMAIC + A3 problem solving method to more efficiently route a solution for the problem
- Documented the program to allow for future support, created installer package for ease in usability

### Filtronetics, Inc., Kansas City, MO

May 2019 - Jan 2020

#### Engineering Technician

Full Time

- Thoroughly tested batches of various RF filter technologies, including mini-monolithic, saw, and ceramic, to ensure they were within specification - ~45 filters/hr
- Followed testing procedure which involved carefully operating and interpreting readings from Agilent spectrum analyzer and logging the results for traceability
- Accelerated logging process by designing custom automated Excel spreadsheets using VBA macros, bringing down time spent on data entry by as much as 50%

### YRC Worldwide, Leawood, KS

Jun 2018 - Aug 2018

#### Student System Engineer Assistant

Full Time

- Assisted the Field Mobility Team responsible for all wireless communication devices used by freight drivers and at shipping terminals
- Repaired damaged business critical devices sent for repair by utilizing technical expertise to diagnose the issue
- Documented comprehensive steps detailing the issue's resolution for future reference

### Code Ninjas, Leawood, KS

Jan 2018 - May 2019

#### Code Sensei (Supplementary Instructor)

Part Time

- Worked with groups of 10-20 children ages 7-14 to advance their knowledge of programming languages including Python, JavaScript, and Scratch
- Cultivated the development of industry standard programming techniques by introducing and reinforcing core concepts early on

### Center for Advanced Professional Studies, Overland Park, KS

Aug 2017 - Jan 2019

#### Engineering

Student / Apprentice

- Consulted with clients to turn their ideas into physical objects, by working in shop to design and fabricate parts using 3D printers, upright mills, CNC machines, and laser cutters
- Completed interdisciplinary projects utilizing engineering tools including such as Fusion 360 and Eagle

## ACTIVITIES

- **IEEE@KU** (Institute of Electrical and Electronics Engineers), *Vice-President, Secretary* 2020 - Present
- **Boy Scouts of America**, *Earned the rank of Eagle, Webmaster* 2011 - 2018
- **Varsity Soccer**, *Two-year letter recipient, 2017 Most Improved Player* 2017, 2018

## SKILLS

MATLAB   PSpice   Python   C / C++   Arduino   VBA   KiCAD   HTML / CSS / JS   Autodesk Fusion 360   Autodesk Eagle