

Carter Rommelfanger

Electrical Engineering Major

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Summary

B.S. Electrical Engineering student at the Milwaukee School of Engineering. Works on high voltage projects during Mozee Motorsports. Developed teamwork, design, and communication skills through First Robotics. Devotes around 13 hours a week to co-curriculars. Skills in Java, C, Python, AutoCAD, circuit design, bread board, oscilloscope, soldering.

Education

HS Diploma

SEPTEMBER 2021 – MAY 2025 | 3.952 GPA

- Beaver Dam High School
- Beaver Dam, WI

B.S. Electrical Engineering

SEPTEMBER 2025 – MAY 2029

- Milwaukee School of Engineering

Clubs

- Mozee Motorsports 2025 – PRESENT | 3 HRS / WEEK
- Concert Band 2025 – PRESENT | 2 HRS / WEEK
- Jazz Band 2025 – PRESENT | 2 HRS / WEEK
- Choir 2025 – PRESENT | 2 HRS / WEEK
- FTC Robotics 2023 – 2025 | 6 HRS / WEEK

Project Experience

- **Parker Motor Restoration** 2025 – PRESENT
 - Researching the current motor that the team is using
 - Designing a step-by-step troubleshooting guide for the motor
 - Integrating DVT and oscilloscopes to troubleshoot and run the motor
- **Electric Motor Research** 2025 – PRESENT
 - Researching new Electric Motors to utilize during the next design process of the Formula 1 Hybrid car
 - Use of constraints to limit type of motors used
 - Communication with companies to acquire information about potential motors
- **12v Battery Tester** 2024 – 2025
 - Iterated designs to implement a prototype
 - Designed a PCB prototype using CAD software
 - Applied the use of surface mounted devices in the design process

Technical Skills

- **Programming** C, Java, Python, C++, AutoCAD
- **Technical** Circuit PCB Design, Soldering, Bread Board, Research
- **Office and Documentation** Microsoft Word, Microsoft Excel, Google Docs

Leadership, Co-Curricular Involvement, Community Service

- **Moze Motorsports – Formula 1 Hybrid** **SEPTEMBER 2025 – PRESENT | 3 HRS / WEEK | MEMBER**
- **IEEE** **SEPTEMBER 2025 – PRESENT | MEMBER**
- **HomeToStay** **SEPTEMBER 2025 – PRESENT | 4 HRS / WEEK | MEMBER**
- **First Tech Challenge** **JULY 2025 – PRESENT | 2 HRS / WEEK | TEAM MENTOR**
- **First Tech Challenge** **SEPTEMBER 2023 – JULY 2025 | 10 HRS / WEEK | PROGRAMMING CO-LEAD**

Work Experience

- **Summer School Programming Class** **SUMMER 2024, SUMMER 2025 | 20+ HRS**
 - Taught a Java programming class for Highschool and Middle School Students
 - 2024 – Taught a more general java course
 - 2025 – Taught more in line to the knowledge required for FTC robotics
- **Subway** **APRIL 2024 – APRIL 2025 | 15 HRS / WEEK**
 - Sandwich Artist
- **Piggly Wiggly** **NOVEMBER 2021 – MARCH 2024 | 20 HRS / WEEK**
 - Bagger, Stocker, Cashier, Meat Clerk