

Joseph Sizemore

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Senior studying electrical engineering with experience in designing printed circuit boards, soldering surface mount devices, and testing the integrated circuits of single board computers.

Permanent Address
8356 Hallet St.
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711 N 16th St.
Milwaukee, WI 53233
Apt. 210

Education

Marquette University – Milwaukee, WI

GPA: 3.877/4.00

- Bachelor of Science Degree in Electrical Engineering
 - Minor in Business Administration
- Dean's List every semester to date

May 2021

Graduate of Rockhurst High School – Kansas City, MO

May 2016

- Honor roll for all 8 semesters

GPA: 4.00/4.00

Engineering Experience

Marquette University – Undergraduate Research Assistant

October 2017 – Present

- Modify incubator to improve temperature control, regularity, and accuracy
- Write code for moisture and oxygen sensors in gardens on Marquette's campus
- Design cheaper alternative to current datalogging systems based on open-source hardware

Electronic Projects – Personal Hobby

2015 – Present

- 3D printed light up touch-sensitive juggling balls
- Temperature sensor made using a custom PCB
- Persistence of Vision clock made from hard disc drive

Extreme Engineering Solutions – Design Testing Co-op

January 2019 – August 2020

- Captured oscilloscope measurements of traces feeding surface mount components
- Verified performance of all major IC's and communication interfaces on single board computers
- Analyzed electrical schematics and printed circuit board routing for potential issues

Interactive Design – Summer Intern

June 2016 – August 2017

- Programmed FANUC six-joint robot in simulator to grab and stack boxes
- Drafted electrical schematics in DraftSight for high and low voltage control panels of a cell
- Wrote Visual Basic and SQL code to help manage employee hours internally

Activities and Interests

Juggling Club – Marquette: Founder | Rockhurst: President

- Organize and manage practices for the juggling club

Tau Beta Pi – Member

- High school tutoring

Eta Kappa Nu – Member

Boy Scouts – Eagle Scout

Creative Writing Society – Member

Technical Skills

Hardware – Surface Mount Soldering, Oscilloscopes, Panel Layout and Wiring, System and Circuit design

Software – Python, Java, C, Visual Basic, Matlab, SQL, FANUC robot programming

CAD – Altium, Eagle, Multisim, VHDL, NX 10, SolidWorks