

Jack Sides

Outgoing and conscientious engineering student seeking an internship in robotics, computer engineering, or computer science.

EXPERIENCE

Portland Community Church - Tech Director

May 2023 - September 2023

Managing and directing weekly church sound, lights & live streams

Building and maintaining Dante network system

Training volunteers on various technical equipment

George Fox University - Summer Engineering Work Study

May 2023 - August 2023

Organizing, designing and manufacturing products for other departments

Designing curriculum & projects for high school engineering camps

Programming lead for high school engineering camps

George Fox University - Engineering Maker Hub Tool Room Manager

September 2022 - Present

Loaning & maintaining high dollar tools

Rapid prototyping lab assistant & trainer (3D printing & laser cutting)

Organizing/distributing components & raw materials for class projects

Carrot Medical, Seattle WA. - Biomedical Field Service Engineer

August 2021 - January 2023

Repairing various medical equipment

Recalling bezels on Ventilators

Interfacing with hospital staff

Creating, filling out, and closing work orders

George Fox University - Intro to Engineering II Teaching Assistant

January 2024 - Present

Teaching Python programming to students in class

Grading hardware and programming assignments

Setting up and maintaining an automatic grader for programming assignments

Beaverton, OR

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EDUCATION

George Fox University:

Double major: Computer Engineering and

Computer Science

Engineering GPA: 3.94/4.00, Cumulative: 3.88/4.00

116.25 Credit hours

Will be a rising junior as of May 2024

AWARDS

Early College High School, Valedictorian, 4.12/4.00

Scouts BSA, Eagle Scout

RELEVANT COURSEWORK

Digital Logic Design w/ Verilog & FPGAs, Data

Structures, Engineering Principles I & II, Comp. Science

I & II, Physics w/ Calculus I - III, Differential Equations,

Electrical Circuit Analysis, Electrical Power Systems,

Analysis of Algorithms, Linear Algebra, Discrete Math

RELEVANT PROJECTS

Automatic Blinds Controller: Autonomously opens and closes window blinds. [See it here.](#)

Oscillating Air Engine: Compressed air powered piston engine. [See it here.](#)

Electrathon Race Car: Programmed and built driver instrumentation. [See it here.](#)

SKILLS

Tech Skills: Java, Verilog, C++, C#, Python, Arduino, Scala, I2C, FPGAs, oscilloscopes, signal generators, multimeters, building computers

3D Modeling: SOLIDWORKS & Fusion 360

Rapid prototyping: FDM and resin 3D printing, laser cutting, soldering

Machining: Lathe, mill, contour saw, water jet cutting, metal laser cutting, welding, CNC milling

REFERENCES

Personal and professional references available upon request