

Jack Sides

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

EXPERIENCE

NanoVox, Corvallis, OR – Staff Computer Scientist

May 2024 – Present

Developing refraction index visualization software for customers
Creating a slicing program to improve error diffusion of printed lenses
Optimizing complex air diffusion equations with metaheuristic algorithms

George Fox University – Engineering TA

January 2024 – Present

Teaching assistant for Intro to Engineering II and Digital Logic Design
Taught CircuitPython to control Raspberry PI powered robots
Digital Logic lab assistant: helped with Verilog and electronics labs
Set up and maintained an automatic grader for programs

Portland Community Church – Tech Director

May 2023 – September 2023

Managed and directed weekly church sound, lights & live streams
Built and maintained Dante network system
Trained volunteers on various technical equipments

George Fox University – Summer Engineering Work Study

May 2023 – August 2023

Organized, designed and manufactured products for other departments
Designed 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 – May 2024

Loaned & maintained high dollar tools
Rapid prototyping lab assistant & trainer (3D printing & laser cutting)
Organized/distributed components & raw materials for class projects

Carrot Medical – Biomedical Field Service Engineer

August 2021 – January 2023

Repaired various medical equipment
Recalled bezels on Ventilators and Interfaced with hospital staff
Created, filled out, and closed work orders

Beaverton, OR

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EDUCATION

George Fox University:

Triple Major: Electrical Engineering, Computer Engineering and Computer Science

Engineering GPA: 3.96/4.00, **Cumulative:** 3.91/4.00
116.25 Credit hours

Will be a rising Senior as of May 2025

AWARDS

2023 ICPC Oregon Regionals, Programming Competition, 1st place

Early College High School, Valedictorian, 4.12/4.00

Scouts BSA, Eagle Scout

RELEVANT COURSEWORK

Digital Logic Design w/ Verilog & FPGAs, Electrical Circuit Analysis, Electrical Power Systems, Analysis of Algorithms, Electronic Devices & Circuits I & II, Microprocessor Architecture, Electrical Signals & Networks, Embedded Systems Design, Microwave Engineering, Operating Systems, Data Structures, Differential Equations & Linear Algebra

RELEVANT PROJECTS

My projects involving Arduino, I2C and programming are detailed and listed on [my website](#).

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

Dr. Gary Spivey: Prof. of Electrical Engineering, GFU

Sam Grimm: Writing Systems Manager, NanoVox

Justin Johnson: Senior Engineering Technician, GFU

