
SAWYER BAAR

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Contact Info

1.208.731.0024

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Languages

English - Native

German - A2 (CEFR)

Essential Skills

Communication

Collaboration

Curiosity

Work-ethic

Technical Skills

Networks

Web Development

Software

Sensing and Control

Design

Technical Writing

Process

Professional Certifications

Professional Engineer

OSBEELS

No. 102164PE

Profile

Accomplished professional with **6 years of experience** delivering creative and pragmatic solutions as a part of diverse, multi-disciplinary engineering teams. Demonstrated **ability to collaborate and communicate** with technical and non-technical individuals from all backgrounds. **Desire to take on challenges and ability to manage risk and ambiguity** in projects. **Searching for new opportunities as a software developer.** Multiple self-guided projects below demonstrate capability to learn new technologies and develop clean, readable, efficient code.

Relevant Projects

- Network Monitoring App (Python/) - [Link](#)
 - Multiple servers run Monitoring Service App and report monitoring statistics to client using continuous TCP connection.
- Personal Website (React/Node.js/Git) - [Link](#)
 - Uses React, Express, and Node.js to develop a SPA hosted by GitHub.
- German Learning App (Python, Django, Flask) - [Link](#)
- Raspberry Pi 4 Camera w/ Auto Detection (Linux/Bash/Python/OpenCV) - [Link](#)
- Flight Finder Application (Django/Flask/Python/FastAPI) - [Link](#)
- File Type Converter (C/C++/Bash) - [Link](#)

Experience

Process Mechanical Engineer, Jacobs Engineering — 07/2017 - 06/2023

Mechanical design of water and wastewater projects. Responsibilities included:

- Lead mechanical design on multiple projects with overlapping schedules. Met schedule and budget shared with multiple individuals.
- Reported progress to PM and interfaced directly with clients and contractors weekly.
- Developed creative, practical solutions in close coordination with multi-disciplinary team to meet process criteria and client needs.
- Documented design with calculations, reports, specifications, and drawings.

Mechanical Engineering Intern, Portland General Electric — 2016

Developed design packages addressing power generation plant reliability and safety.

Education

B.S. Computer Science — Oregon State University — June 2025

B.S. Mechanical Engineering — Oregon State University, Cum Laude — 2018

Skills

Languages - Python, JavaScript, SQL, C, C++, x86 Assembly, MatLab, Bash, Shell

Technologies - Git, React, Node.js, Express, Django, Flask, MongoDB, SQL

General - Networking, Web Development, Algorithms, Data Structures,

Libraries - FastAPI, Pytest, unittest,

Relevant Coursework

Computer Science - Introduction to Networks, Introduction to Databases, Introductions to Algorithms, Introduction to Data Structures,

References

References are available upon request.

Mechanical Engineering - Water, Wastewater, Solids Processing, Solids Handling, Pumps, Compressors, Blowers, Piping/Valves, Tanks

Construction - Design, Construction Management, Startup and Commissioning Equipment -

Codes and Standards - ASME, AWWA, AWS, NFPA 820, OSHA

Software - AFT Fathom, MS Office, Python

Relevant Coursework

Computer Science - Introduction to Networks, Introduction to Databases, Introductions to Algorithms, Introduction to Data Structures,

References

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