Noah Haworth

Automation Engineer · M.S. Mechanical Engineering

Contact

LinkedIn
GitHub
Based in Bellingham, WA

Education

M.S. Mechanical Engineering
California State University, Fresno
Spring 2022 · 4.0 GPA

B.S. Mechanical Engineering
Mathematics Minor
California State University, Fresno
Spring 2020 · 3.7 GPA, magna cum laude

Skills

Technical

- Controls
- TIA Portal
- SQL
- CAD
- 3D Printing
- Python / SCL / VB
- Linux / ROS
- Applied Math
- Lathe / Mill / Welding

Interpersonal

- Learning
- Teaching
- Communication
- Mentorship
- Sociable
- Critical thinking
- Following SOPs
- Teamwork
- Machine shop proficiency

Awards

- LCOE Graduate Sponsorship
- President's List × 4
- Dean's List × 3
- IEEE Chess Champion 2021 (Fresno State)
- Fresno State Chess Club Champion 2022

Certification

- Engineer-in-Training (EIT), NCEES

Experience

Automation Engineer
Janicki Industries
Sedro-Woolley, WA · Summer 2022 – Present
Develop PLC programs to control various systems in complex industrial environments.

Teaching Associate
Fresno State Mechanical Engineering Department
Fresno, CA · Fall 2020 – Spring 2022
Taught CAD courses with a focus on SolidWorks, simulations, AutoCAD, and drafting standards.

Salesperson & Track/Shop Worker
Hillcrest Farm & Shop
Reedley, CA · Fall 2012 – Fall 2021
Maintained and sold Christmas trees seasonally. Also railroad track work and general help in the machine shop.

Supplemental Tutor
Fresno State Pathways
Fresno, CA · Fall 2019 – Fall 2020
Provided supplemental instruction for students in engineering, math, and physics courses.

Draftsman
Emerzian Woodworking
Fresno, CA · Summer 2018
Created and modified CAD schematics for cabinets, countertops, and wall panels for custom installation.

Projects & Research

Controls Scheme, HMI, & PLC Programs for Distributed Resin Curing Systems
Developed and improved industry-leading PID control, HMI, data logging, and data reporting for large-scale distributed heating systems with dual-side heating via convection and radiation, using Siemens hardware and software, Grafana, Python, and SQL.

Mechanical Design Projects
Worked on design projects in collaborative teams using Siemens NX, CATIA, ECTR, and SAP. Responsible for component selection of actuators and fasteners.

International Chess Tournament
US organizer for an international chess tournament between the US and Canada. Responsible for the US side of communications with the Canadian organizer, coordination with US Border Patrol, venue logistics, prize selection and allocation, and advertising.

Non-invasive Continuous Glucose Monitoring System
Used the photoacoustic effect to measure glucose concentrations in vitro, working toward an in vivo, non-invasive wearable device. Paper published in IEEE Access (March 2022): read it here.

Fresno State COVID-19 PPE Production
Student project leader handling equipment logistics, internal and external team communication, and the development, production, and assembly of personal protective equipment.

ROS Robots
Researching, designing, simulating, and assembling robots powered by ROS, with a focus on quadruped robots, inverse dynamics, and terrain mechanics. Read the thesis.