Peter Sauer

BS MECHANICAL ENGINEERING & COMPUTER SCIENCE

MASTER OF SCIENCE IN ROBOTICS

CONTACT

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REFERENCES

JOSH MEHLMAN

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MARK GUNDERSEN

VP of Autonomous Vehicles at Ocean Power Technologies Inc.

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EDUCATION

NORTHWESTERN UNIVERSITY

2020 - 2021

GPA 3.8/4 | MS in Robotics

UNIVERSITY OF WISCONSIN

2016 - 2020

GPA 3.2/4 BS in Mechanical Engineering, Minor in CS

STAPLES HIGH SCHOOL

GPA 3.9 | National Honor Society

National Merit Scholar

Design Innovation Award

WORK EXPERIENCE

MECHATRONICS ENGINEER @ OCEAN POWER TECH

August 2020 - Present

Worked both in and outside of the scope of my role as a Mechatronics Engineer at OPT. Started as the 5th employee in the company, and worked through an aquisition to help grow the team to over 20 employees. Developed software, firmware, and hardware for our autonomous vehicles (the WAM-V). Traveled consistently to aid teams in development projects around the globe including in the Middle East and Offshore projects in Alaska. Worked closely with teams in the field to develop solutions for surveillance, seafloor mapping and a variety of other applications.

MECHANICAL ENGINEER @ PRESCO INC.

March 2020 - August 2020

Designed and built a prototype for both a UV-C mask cleaner that incorporated an arduino-based timer to protect users from harmful UV-C LEDs. Also designed a built a prototype of a UV-C mail cleaner that used two stepper motors to feed mail through a UV-C cleaner. (COVID era)

CREATIVE LEAD @ PROJECT CYCLONE

2020 - Present

Working on the UI for a startup company I co-founded that takes sensor data from machines (diesel engines for our test case) and uses Machine Learning to produce a maintenance schedule that reduces machine downtime considerably.

SOFTWARE DEV INTERN @ PIKE TECHNOLOGIES

Summer 2019

Primarily worked on automating a coating process using the 861 Depostition Controller by Telemark. Also added wireless connectivity to a temperature control module and programmed a web application to display temperatures plotted over time.

STUDENT WORKER @ GRAINGER DESIGN INNOVATION LAB

Spring 2019

Aided professors and grad/undergrad students in rapid prototyping processes like 3D printing, lasercutting and CNC routing.

SAILING INSTRUCTOR @ NORWALK YACHT CLUB

Summer 2016 - 2018

Taught children (ages 7-17) and adults how to sail. Worked with small groups of all levels to teach safety, sailing fundamentals, boat set up and racing strategies.

SKILLS

PROGRAMMING

Debian, Ubuntu, Windows, MacOS

Computer Vision

Python (With ROS Experience)

C (Microcontrollers)

Javascript, CSS, HTML

C++ (ROS)

CAD MODELING

SolidWorks

Autodesk Inventor

DESIGN

Adobe Illustrator

Adobe Photoshop

OTHER

Computer Networking

Rapid Prototyping

3D Printing

EXTRACURRICULARS

WISCONSIN SAILING TEAM CAPTAIN

2019 - 2020

Managed a team of 40-50 college sailors competing at the national level. Coordinated travel across the US, managed a $100,000+ budget, created rosters, hired coaches and staff.

WISCONSIN SAILING TEAM MERCHANDISE CHAIR

2018 - 2019