

# Peter Sauer

BS MECHANICAL ENGINEERING  
& COMPUTER SCIENCE

PURSUING MS IN ROBOTICS

## CONTACT

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## REFERENCES

### KENT GUNDLACH

Vice President at PIKE Technologies

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### PHIL BLACK

President at Presco Inc.

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### SEAN VAEZ

CEO at Project Cyclone

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## EDUCATION

### NORTHWESTERN UNIVERSITY

2020 - Present

GPA 3.75/4 | 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

### 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 Deposition Controller by Telemark. Also added wireless connectivity to a temperature control module and programmed a web application to display temperatures plotted over time.

### MECHANICAL ENGINEERING INTERN @ PRESCO INC.

December 2017 - August 2018

Designed and built a prototype device to automatically dynamically change the height of a baseball tee as balls are hit off of it. Project involved designing hardware in solidworks, firmware for the electronics and building an android app to connect to the device wirelessly.

### 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 LANGUAGES

Java (With Android Experience)

Ruby

Python (With ROS Experience)

C (Microcontrollers)

Javascript, CSS, HTML

C++ (ROS)

### CAD MODELING

SolidWorks

Autodesk Inventor

### DESIGN

Adobe Illustrator

Adobe Photoshop

## 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

Re-designed the teams logos and information packages, created new shirts, jackets, etc. Managed large team orders.

### UW MADISON FORMULA SAE MEMBER

Fall 2016