

# Katherine Mackowiak

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## Education

### **OLIN COLLEGE OF ENGINEERING**

BS in Engineering: Concentration in Computing, 2023

GPA: 4.0

Recipient of a 4-year, 50% Olin Merit Scholarship

Software Design, Quantitative Engineering Analysis, and Modeling and Simulation of the Physical World

### **PENFIELD HIGH SCHOOL**

Class of 2019

GPA: 98 on a 100 point scale

## Experience

### **SOFTWARE ENGINEERING INTERN | VIEWPOINT SYSTEMS | JUN 2020 – PRESENT**

- Viewpoint designs automated test systems for production testing and product validation
  - Implemented user interface for tracking parts throughout a large-scale manufacturing process
  - Developed front and backend website using Blazor and C#

### **PROGRAMMING TEAM | OLIN HEXAPODS ROBOTICS | SEPT 2019 – DEC 2019**

- Team member designing a six-legged robot to navigate rough terrain
  - Worked on LIDAR detection and identification of obstacles in the robot's path using python

### **PROGRAMMING LEAD | FIRST ROBOTICS COMPETITION | SEPT 2015 – JUN 2019**

- Wrote vision tracking and autonomous driving code using C++
- Designed elevator system within robot with Autodesk Inventor
- Wired robot and routed pneumatics

### **ENGINEERING INTERN | ANKOM TECHNOLOGY | JUL 2019 – AUG 2019**

- ANKOM develops and manufactures analytical instrumentation and support products for use in laboratory analysis of food and feed products. Engineering Intern
  - Wrote python code to interpret data from prototypes
  - Rebuilt damaged packaging machine
  - Manufactured parts using CNC mill

## Skills & Abilities

Software: Python, C++, C# - Blazor, Matlab

Other: Excel, Autodesk Inventor, Autodesk Fusion 360 Experience, Adobe Suite