

# FREDERICK KOZLOWSKI

fredkozowski.me

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## EDUCATION

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### **Stony Brook University**

May 2019

B.S. in Mechanical Engineering & Computer Science

Dean's List

University Scholar

Winner of 3D the Campus

Overall GPA: 3.0

## EXPERIENCE & PROJECTS

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### **Con Edison**

2014 - 2015

*Data Analyst Intern*

*Brooklyn, NY*

- Analyzed data using Excel and used conclusions to change work procedures, such as sharing facilities between contractors and employees.

### **Residential Safety Program**

2017 - 2017

*Field Worker*

*Stony Brook, NY*

- Ensured the safety of each residential quad through the means of walking patrols.

### **Research in Mobile Robotics**

2016 - Present

*LIDAR Data Analysis and Map Merging*

*Stony Brook, NY*

- Used ROS in a Linux environment to implement Simultaneous Localization and Mapping (SLAM) on Pioneer 3DX robots to develop occupancy grid mapping software
- Used YOLOv2 neural network framework for object detection and map merging

### **Stony Brook ASME**

2016 - Present

*Fabrication Team Leader*

*Stony Brook, NY*

- Developed the frame for a go kart using Autodesk Inventor (CAD)
- Used TIG welding, machining and hand tools to assemble the frame
- Selected and installed components such as electric motors and motor controllers

### **Columbia University FSAE**

2016 - 2017

*Welder and Designer*

*New York, NY*

- Oversaw design in SolidWorks (CAD) and fabrication of the clutch handle device
- Designed an electro-mechanical actuator system aided by a programmable control unit
- Worked alongside welding team to assemble car using TIG welding

### **RC Flying Club**

2015 - Present

*President and Founder*

*Stony Brook, NY*

- Taught members how to solder, work with electronics and use CAD to build and modify RC vehicles

## TECHNICAL STRENGTHS

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### **Computer Languages**

Java, Python, Excel VBA, MATLAB

### **Skills**

3D printing, CAD, Arduino, Electronics, Welding

### **Languages**

English, Polish