

FREDERICK KOZLOWSKI

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EDUCATION

Stony Brook University

May 2019

B.S. in Mechanical Engineering & Computer Science

Dean's List

University Scholar

Winner of 3D the Campus

Overall GPA: 3.1

EXPERIENCE & PROJECTS

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 - Present

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 Darknet 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

Computer Languages

Java, Python, Excel VBA, MATLAB

Skills

3D printing, CAD, Arduino, Electronics, Welding

Lanugages

English, Polish