

FREDERICK KOZLOWSKI

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EDUCATION

Stony Brook University

May 2019

B.Eng. in Mechanical Engineering, Overall GPA: 3.0

Dean's List, University Scholars, Winner of 3D the Campus

WORK EXPERIENCE

Lemnis Technologies

May 2018 - August 2018

Computer Vision Intern

Singapore

- Developed world's first video pass-through Augmented Reality for a varifocal platform.
- Integrated a stereo camera, a varifocal Virtual Reality headset and hand detection camera to create a demo which was shown at SIGGRAPH, the largest computer graphics conference.
- Worked in OpenCV, Unity (C#), MATLAB, HLSL to increase perceived comfort by 60%.

Con Edison

June 2014 - June 2015

Intern

Brooklyn, NY

- Analyzed data using Microsoft Office Excel to determine bottlenecks in flush operations.
- Created a facility sharing scheme which would result in a 20% efficiency gain.

PROJECTS

RC Flying Club

September 2015 - September 2018

President and Founder

Stony Brook, NY

- Pioneered safety regulations for RC vehicles along with SBU Health and Safety.
- Taught members how to solder, work with electronics, and use CAD to model and design RC vehicles.

Research in Mobile Robotics

October 2016 - September 2018

LIDAR Data Analysis and Map Merging

Stony Brook, NY

- Used ROS to implement SLAM on P3DX robots to develop occupancy grid mapping.
- Used YOLOv2 neural network framework for object detection and map merging.

Stony Brook ASME

October 2017 - May 2018

Fabrication Team Leader

Stony Brook, NY

- Developed the frame for a go kart using 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

September 2016 - February 2017

Welder and Designer

New York, NY

- Oversaw design in SolidWorks and fabrication of the clutch handle device.
- Worked alongside welding team to assemble car using TIG welding.

TECHNICAL STRENGTHS

Skills

PTC Creo, Autodesk Inventor, SolidWorks, 3D Printing, Welding, Writing

Languages

English, Polish