FREDERICK KOZLOWSKI

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EDUCATION

Stony Brook University   *May 2019*

B.Eng. in Mechanical Engineering

Dean's List
University Scholar
Winner of 3D the Campus
Overall GPA: 3.0

EXPERIENCE & PROJECTS

Lemnis Technologies   2018 - 2018
Computer Vision Intern   *Singapore*

· Developed world's first video pass-through AR for a varifocal platform.
· Integrated ZED Mini stereo camera, a modified varifocal Windows MR headset and Leap Motion controller to create a demo.
· Worked with OpenCV, Unity (C#), MATLAB, HLSL to increase fidelity and comfort.

Con Edison   2014 - 2015
Data Analyst Intern   *Brooklyn, NY*

· Analyzed data using Excel and used conclusions to suggest contractors sharing facilities with employees.

Research in Mobile Robotics   2016 - Present
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   2016 - 2018
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
· Worked alongside welding team to assemble car using TIG welding

RC Flying Club   2015 - 2018
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	C++, Java, Python, C#, Excel VBA, MATLAB
Skills	3D printing, CAD, Arduino, Electronics, Welding
Languages	English, Polish