

# FREDERICK KOZLOWSKI

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## EDUCATION

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**Georgia Institute of Technology** May 2022  
M.S. in Computer Science

**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

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**BNP Associates** September 2019 - March 2020  
*Project Engineer* Fairfield, CT

- Designed baggage handling systems for airports around the world in Autodesk Revit.
- Optimized and streamlined baggage operations while coordinating with other disciplines.
- Resolved design issues with other disciplines, while ensuring optimum design for conveyor reliability and effectiveness.
- Relentlessly focused on clarity, accuracy, and speed when putting together designs to meet specifications, as well as creatively problem solved to balance design trade offs.
- Participated in the \$3.8 billion JFK T4 redevelopment project by managing the Improvement Works phase of the project and completing field verification of existing conditions.

**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 Excel to determine bottlenecks in service box flush operations.
- Created a facility sharing scheme which would result in a 23% efficiency gain.

## PROJECTS

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**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.

**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.

## TECHNICAL STRENGTHS

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**Skills** Modern C++, MATLAB, Java, Excel VBA, Robotics, Computer Vision, Writing