

Alisa Mizukami

+1 (347) 361-3434 | alisamizukami@gmail.com | Queens, NY | Portfolio: AlisaMizukami.com

EDUCATION

Bachelor of Engineering, Mechanical Engineering December 2020
Macauley Honors College at The City College of New York Full Merit Scholarship – GPA: 3.71

COMPUTER SKILLS

- SolidWorks (Simulation, HSMWorks)
- ANSYS (Fluent, Mechanical APDL)
- MATLAB

CERTIFICATIONS

- Six Sigma White Belt
- OSHA 30-Hour Construction

RELEVANT WORK EXPERIENCE

Engineering Fellow – NYC Office of the Comptroller – New York, NY June 2021 – December 2021
Resolved construction claims by meeting with agencies and contractors, conducting job estimates, and writing reports to the law division analyzing the disputed work.

Research Development Design Intern – Actasys – Brooklyn, NY June 2020 – January 2021
Designed and prototyped nozzle attachments to synthetic jet actuators in order to manipulate jet flow. Constructed and tested driver circuits in order to provide the required voltage for actuators to operate.

Research Assistant – City College of New York – New York, NY September 2017 – August 2020
Used computational fluid dynamics software in order to support research on shock tubes, wind energy, and advance department knowledge on software.

Advanced Manufacturing Apprentice – Zahn Innovation Center – New York, NY September 2019 – May 2020
Manufactured products using various machines and hand tools, such as lathing, milling, and laser cutting.

Structures Intern – Pratt & Whitney – East Hartford, CT June 2019 – August 2019
Conducted a modal analysis of high-pressure turbine blades using finite element analysis to estimate stress values and natural frequencies and compare with experimental results.

Technical Intern II – BAE Systems – Nashua, NH January 2019 – May 2019
Performed statistical tolerance analyses using Oracle Crystal Ball by compiling dimensions from engineering drawings and models in spreadsheets in order to conclude the feasibility of changing part designs.

ACADEMIC PROJECTS

Senior Design: Personal Fire Escape System January 2020 – December 2020
Worked as a team of six to design a mechanical window escape system that descends a user at constant speed regardless of weight. Project website: <https://amizuka000.github.io/fireescape/>

Finite Element Analysis: Static Analysis of a Clothes Hanger November 2019 – December 2019
Worked as a team of four to conduct finite element analysis using SolidWorks Simulation and validate results using displacement, convergence, sensitivity, analytical, and experimental tests.

AFFILIATIONS

Creative Director – American Society of Mechanical Engineers Student Chapter October 2016 – May 2020