

ELLIOT KANG

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SKILLS

Technical: SolidWorks, SolidEdge, AutoCAD, Autodesk Inventor, Pro/E (Creo), ANSYS, MATLAB, Simulink, Excel, Python, C++
Hands-on experience using a mill, lathe, and repairing automobiles and motorcycles, wood shop training

Collaboration: Lean Six Sigma Yellow Belt, SharePoint, Microsoft Teams, Scrum, Gantt chart

TECHNICAL EXPERIENCE

Hitachi-ABB Power Grids, Princeton, NJ

Internship Engineer

Jun. 2020 – Present

- Standardizing AutoCAD single-line diagram block library that enables engineers in Switzerland and Germany branches to unite protocols and streamline future installation processes for multimillion-dollar power grids
- Automating Excel data sheets to visualize performance metrics for 8-person engineering team
- Piloting a new Wiki page for Swiss engineers to access vital descriptions, BOMs and engineering drawings for 1200+ production units across 8 different products

Rutgers University School of Engineering, New Brunswick, NJ

Undergraduate Research Assistant

Nov. 2019 – Present

- Harnessing Inventor 3D modeling software to design and manufacture novel mechanism of 2 oscillating pistons acting as Helmholtz resonators with variable cavity sizes
- Analyzing and documenting non-reciprocal acoustics in an impedance tube to understand the phenomenon for future applications and experiments

Beumer Group, Somerset, NJ

Mechanical Engineering Design Intern

Jun. 2019 – Aug. 2019

- Finetuned SolidEdge drawings contributing to multiple large-scale sortation products by revising designs and prototyping new parts
- Communicated with part vendors to conduct cost analysis of various design modifications and accurately predict price of manufacturing parts
- Primed new project initiative for development of support beams for a FedEx parcel sorter

LEADERSHIP

Rutgers University, New Brunswick NJ

Senior Design Project Team Lead

Sep 2020 – Present

- Designing a prototype FDM printer based on the Creality Ender 3 platform to print Ecoflex 00-10 reinforced with graphene nanoparticles for enhanced material properties
- Enhancing team dynamics and organization for 4-person engineering group by integrating project management skills such as Gantt charts and Scrum

Resident Assistant

Oct. 2018 – Sept. 2020

- Serving in after-hours on-call crisis management team for over 800 undergraduate students residing in apartments
- Develop a positive living environment for residents, often providing emotional counseling and resolving conflicts
- Managing administrative duties such as budgeting, maintenance requests, incident reports, and room transfers
- Inspiring a strong inclusive living community with the use of monthly organized programs and intentional interactions

EDUCATION

Rutgers University, New Brunswick NJ

B.S., Mechanical Engineering

Sep 2016 – May 2021

- Cumulative GPA: 3.2
- Relevant courses: Alternative Energy, Internal Combustion Engines, Thermodynamics, Reliability Engineering, Mechatronics, Electronics Packaging