**SKILLS**

*Technical*: SolidWorks, SolidEdge, AutoCAD, Autodesk Inventor, Pro/E (Creo), ANSYS, MATLAB, Simulink, Excel, Python, C++

Hands-on experience using a mill, lathe, repairing automobiles and motorcycles, wood shop training, data analysis

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

**TECHNICAL EXPERIENCE**

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| **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 | |
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**LEADERSHIP**

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| **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**

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| **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