

ELLIOT KANG

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SKILLS

Certifications: Engineer in Training (prospective), Certified SolidWorks Associate – Mechanical Design, Lean Six Sigma Yellow Belt

Technical: CAD (SolidWorks, SolidEdge, AutoCAD, Inventor, Creo), Revit & BIM360, ANSYS (FEA, CFD), MATLAB, Excel, Python, Arduino, web design, machine shop (mill, lathe, CNC), wood shop, automobile & motorcycle repair

Collaboration: Project management, Microsoft Teams, Scrum, Gantt charts, Agile

TECHNICAL EXPERIENCE

P2S Inc., Seattle, WA

Mechanical Design Engineer

Oct. 2021 – Present

- Collaborating with architecture and construction firms to develop sustainable HVAC and plumbing CAD designs in Revit
- Focusing on new construction and revamping old buildings in the healthcare industry
- Utilizing thermodynamic and acoustic background to optimize airflow in critical environments

Rutgers University School of Engineering, New Brunswick, NJ

Research Assistant

Nov. 2019 – Aug. 2021

- Harnessed 3D CAD software to design a novel mechanism to observe non-reciprocal acoustics in an impedance tube
- Enhanced prototype efficacy through iterative design improvements and MATLAB tests
- Manufactured prototypes using CNC machine skills

Hitachi-ABB Power Grids, Princeton, NJ

Engineering Intern

Jun. 2020 – May 2021

- Standardized 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
- Automated Excel data sheets to visualize performance metrics for 8-person engineering team
- Piloted a new FosWiki for Swiss engineers to access vital descriptions, BOMs and engineering drawings for 1200+ production units across 8 different products

Beumer Group, Somerset, NJ

Mechanical Engineering Design Intern

Jun. 2019 – Aug. 2019

- Conducted cost analysis of various design modifications to estimate project budgets
- Finetuned SolidEdge drawings contributing to multiple large-scale sortation products by revising prototype designs

LEADERSHIP

Rutgers University, New Brunswick NJ

Capstone Project Team Lead

Sep 2020 – May 2021

- Managed the design and manufacturing processes of a prototype advanced material FDM 3D printer
- Programmed software in MATLAB and Arduino to effectively control the system's electronics
- Improved organization for 4-person, fully remote team by integrating project management skills

Resident Assistant

Oct. 2018 – Sept. 2020

- Served in after-hours on-call crisis management team for over 800 undergraduate students residing in apartments
- Developed a inclusive living environment for residents, often providing emotional counseling and resolving conflicts

EDUCATION

Rutgers University, New Brunswick NJ

B.S. Mechanical Engineering, Cum Laude

Sep 2016 – May 2021

- ABET accredited