Julie Nam

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EDUCATION:

Cornell University, Ithaca, NY   *August 2023 - May 2027*

- Bachelor of Science in Mechanical Engineering
- Relevant Coursework: Intro to Mechanical Design, Dynamics, Statics, Physics (Mechanics, Electricity and Magnetism), Computer Science, Calculus 3, Differential Equations, Linear Algebra
- GPA: 3.343

Bergen County Technical High School, Teterboro, NJ   *September 2019 - June 2023*

TECHNICAL EXPERIENCE:

Undergraduate Researcher at Cornell Space Structures Lab   *May 2025 - Present*

- Awarded the ELI Summer Research Grant
- Designing a compact gravity offloading rig that can counteract the weight of thin structures to help predict buckling behavior

Adapt-a-bit (MAE 2250 Project)   *January 2025 - May 2025*

- Designed a multifunctional keychain case that integrates a screwdriver and tape measure
- Utilized Fusion 360 for 3D modeling and iterative prototyping
- Tested prototypes (dropping, loading, size) to further improve design decisions

Furniture Car Project   *October 2024 - December 2024*

- Designed and attempted to convert a chair into a functional vehicle
- Utilized woodcutting, metal cutting, and power tools for fabrication

Rutgers University SLAAM Academy, New Brunswick, NJ   *July 2022*

- Incorporated ergonomic principles and manufacturability considerations into modeling a pen on Solidworks
- Built a small electronics-integrated project using an Elegoo Arduino Uno R3 Starter kit
- Communicated with a team to split up the work

WORK EXPERIENCE:

Cornell Fitness Center, Ithaca, NY   *August 2024 - Present*

- Ensure facility safety and enforce operational procedures.
- Assist members with questions and maintain equipment conditions.

Gong Cha, Ridgefield, NJ   *August 2022 - June 2023*

- Managed high-paced customer interactions and improved service efficiency
- Learned recipes for multiple drinks

SKILLS:

- Technical: SolidWorks, Fusion 360, MATLAB, Excel, power tools, metal and woodcutting, drilling press, Python, HTML, CSS, Google Suite, Microsoft Office
- Fluent in Korean and English
- Strong analytical and problem-solving skills