

Julie Nam

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EDUCATION

Cornell University, College of Engineering , Ithaca, NY Bachelor of Science in Mechanical Engineering, GPA: 3.498	Expected: May 2027
Relevant Courses: Mechanical Design, Dynamics, Statics, Fluid Mechanics, Thermodynamics, System Dynamics, Mechanics of Engineering Materials, Waves*, Mechatronics*, Heat Transfer* (<i>Spring 2026*</i>)	

TECHNICAL EXPERIENCE

Cornell Space Structures Lab , <i>Undergraduate Researcher</i>	May 2025 - Present
<ul style="list-style-type: none">Develop a new method to manufacture composite structures with the least possible imperfectionsDesigned PLA mold prints using Fusion 360 to create silicone molds for composite manufacturingRan FEA simulations of plate deformations under pressure with Abaqus, reducing deformation by 92.3%Manufactured composite layups using silicone molds to scan for imperfections and compare to FEA resultsAwarded \$2,712 by Boeing after submitting proposal to the Cornell Office of Inclusive Excellence	
NASA L'SPACE Mission Concept Academy , <i>Mission Assurance Specialist</i>	June 2025 – August 2025
<ul style="list-style-type: none">Worked in a team of 18 people on a virtual NASA space mission, up to the submission of a 243-page Preliminary Design Review of the mission life cycleCreated a Gantt chart and budget table to meet \$450M budget and launch readiness date of Dec. 1, 2029Led the mission assurance portion of the mission, ensuring risks were identified, analyzed, and mitigatedDeveloped a risk mitigation chart, risk matrix, and failure mode effect analysis to ensure safe practices in the workplace throughout all phase of the mission while creating mitigations plans for 32 risksPresented a 30-minute Preliminary Design Review presentation in front of a Standing Review Board	

PROJECTS

Adapt-a-bit , <i>Intro to Mechanical Design project</i>	January 2025 – May 2025
<ul style="list-style-type: none">Designed a multiuse keychain case that integrates a screwdriver and tape measure with a team of 3 peopleResearched and interviewed 10 people to focus on a common design problem faced by themDeveloped 4 prototypes using Fusion 360, incorporating feedback from TAs in each iterationTested the quality of the prototype through a stacking test, drop test, and size testDeveloped a Pugh matrix chart to decide on which prototype has the potential to be further developed into a final model, focusing on size, storage, ease of use, and safety	

WORK EXPERIENCE

Cornell Fitness Center , <i>Fitness Monitor</i>	August 2024 – Present
<ul style="list-style-type: none">Performed routine inspection, adjustment, and basic maintenance of an average of 60 gym equipment at 4 different fitness centers, building hands-on troubleshooting skillsApplied safety protocols and maintained equipment logs, ensuring safety and organizationCollaborated with staff and members to communicate technical instructions clearly, strengthening teamwork and customer service skills under pressure, with peak times reaching 80% to 90% gym capacity	

VIRTUAL TRAININGS

Siemens Xcelerator Academy	July 2025 – Present
<ul style="list-style-type: none">Enrolled in an online learning portal to gain knowledge of Siemens NX and prepare for the Siemens NX Design Associate Certification exam, completing a total of 40 hours of lessons and hands-on practice	

SKILLS

Design: Fusion 360, MATLAB, Abaqus, Siemens NX, Bambu Studio

Computer Software: Excel, Python, HYML, CSS, Google Suite, Microsoft Office

Hands-on Manufacturing: 3D printing, power tools, metal and woodcutting, drilling press

Languages: English (fluent), Korean (fluent)