

Minsang Lee

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Portfolio: minsanglee.com

Education

Northeastern University, Boston MA

April 2026

Candidate for a Bachelor of Mechanical Engineering and Design

GPA: 3.5

Honors: Dean's List

Courses: Design Process Context/Systems, Design Perspectives, Thermodynamics, Dynamics, Mechanics of Materials, Fluid Mechanics

Activities: Robotics, Korean American Student Association, Baja SAE

Skills

SolidWorks, AutoCAD, MATLAB, 3D Printing, CNC machining, FEA, CFD, Python, C++

Professional Work Experience

Product Insight, Boxborough, MA

January 2024 – June 2024

Mechanical Engineering Co-op

- Created and modified complex 3D models in SolidWorks, ensuring precise dimensions, mounting features, and interactive elements for product development.
- Built and iterated sliding door prototypes, troubleshooting spacing, motion, and safety challenges with 3D-printed and off-the-shelf components.
- Designed and integrated master models, exploded views, and off-the-shelf parts into assemblies for efficient product development.
- Developed and laser-cut acrylic jigs for secure mounting and precise positioning of laser levelers in next-generation delivery vehicles.
- Built custom drill jigs for seamless installation of developed vehicle components.
- Conducted research and calculations for E-Chain movement, selecting and integrating linear plain bearings for optimized load distribution.
- Conceptualized, designed, and 3D-modeled innovative mechanical solutions to enhance structural integrity and functionality.

Wise-Technology, Seoul, South Korea

Product Development Engineer

April 2025 – June 2025

- Prototyped and released a new product line of precise pressure measurement devices compatible with specific flange sizes for integration into systematic machines.
- Utilized 3d Printing, CNC machining, and laser cutting to fabricate and iterate prototypes.
- Collaborated with cross-functional teams to ensure product reliability and manufacturability from concept to release

Manufacturing Technician

November 2020 – March 2021

- Assembled Differential Pressure Transmitters, Pressure Transmitters, Temperature sensors, Indicators
- Oversaw the entire manufacturing process of four lines of specific equipment.
- Specialized in assembly of an entire line of technical equipment and equipment/safety training for new employees

Republic of Korea Army, 9th Infantry Division, Paju, South Korea

May 2021 – November 2022

Rank: Sergeant, Motor Transport Operator / Emergency Vehicle Operator

- Provided technical support for vehicle maintenance and repairs to ensure operational readiness of military equipment.
- Oversaw dispatch and quality compliance for 40+ vehicles monthly; operated emergency and heavy-duty vehicles.