

Taewon Yoon

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EDUCATION

Northwestern University

Evanston, IL

B.S. in Manufacturing and Design Engineering

Anticipated June 2026

- GPA: 3.84/4.00 | Honors: Fall 2022, High Honors: Spring 2023
- Relevant Coursework: Computer-Aided Design, Engineering Analysis, Engineering Design and Communications, Industrial Design, Material Science, Multivariable Calculus, Numerical Analysis, Project Management

St. Mary's International School

Tokyo, Japan

• *IB Diploma: 43/45 | High School Diploma: GPA 4.12/4.44 (weighted)*

January 2017 – May 2020

WORK EXPERIENCE

ENF Technology

Giheung-gu, South Korea

Research Intern

August 2023

- Shadowed meetings and visited company facilities in the Semiconductor Research team
- Conducted calculations to optimize echant production efficiency at the company's manufacturing site

Design Thinking and Communication

Evanston, IL

Client: Judy Geigner, Manufacturing Lead

January 2023 – March 2023

- Collaborated in a team of four to design and construct a specialized cart for patients with arthritis and Parkinson's disease, to move objects to different locations at different heights
- Led the prototype's manufacturing process, starting with initial hand-drawn sketches and selecting cost-effective materials to constructing a functional prototype within a \$200 budget
- Wrote a comprehensive final report and successfully presented and delivered the final product to client

ACTIVITIES

Northwestern Formula Racing Team

Evanston, IL

Suspension Team Hubs Sub-team Member

June 2023 -Present

- Collaboratively designed, calculated, optimized, and improved hubs for the 2023-24 vehicle
- Redesigned the rear hub using Solidworks, achieving a 14% weight reduction while ensuring structural integrity
- Conducted finite element analysis for four driving situations to verify mechanical reliability of the project
- Developed a geometric dimensioning and tolerancing to send to an outsourced manufacturing partner

Suspension Team Steering Sub-team Member

September 2022 - June 2023

- Cooperated with three students to design, optimize, and manufacture steering system for the 2022-23 vehicle
- Calculated optimum length of steering columns to satisfy suspension geometry and driving qualifications
- Removed torsional play in steering columns by welding the steering columns instead of using pins
- Improved pillow block design by reducing 33% weight while satisfying suspension geometry using Solidworks
- Manufactured jigs, steering columns, and pillow blocks using the mill and lathe with ± 0.001 tolerance

LEADERSHIP EXPERIENCE

Korean American Student Association

Evanston, IL

Publicity Team Graphics Chair

June 2023 – Present

- Led the Publicity team in the creation of visual content to promote Korean culture at Northwestern University
- Planned and managed a schedule for ideation, production, and promotion of marketing materials for club events
- Redesigned club logo using typography to represent the club's cultural identity in both English and Korean
- Designed and introduced mascots for the first time in club history to encourage member engagement, resulting in 18% year-on-year increase in new member recruitment

OTHER INFORMATION

Computer: Adobe Illustrator, Adobe Photoshop, MATLAB, Microsoft Office, Python, Slack, Solidworks

Construction: Proficient in using the CNC machine, laser cutter, lathe, and mill

Language: Fluent in English and Korean, Professional working proficiency in Japanese

Interests: Graphic Design, Pencil Drawing, Skateboarding, Soccer

Military Service: ROK Army, Rank: Sergeant

September 2020 – March 2022