

# Taehee Tae Kim

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## EDUCATION

### Cornell University, College of Engineering

Ithaca, New York

BS, Mechanical Engineering, minor in Electrical and Computer Engineering, Business

Aug 2024 - Present

- Cumulative GPA: 3.64 / 4.00

## WORK EXPERIENCE

### Prime Motors

Incheon, South Korea

Engineering Intern

May 2025 - Aug 2025

- Collaborated on converting Hyundai 5-ton trucks and SsangYong Rexton vehicles into remotely controlled military equipment platforms (up to 5 km range) using RS485 communication and relay logic.
- Repaired forklifts with faults in electromagnetic brakes, limit switches, and lead-acid batteries.
- Assisted in designing and fabricating a frame with disc brakes, a 50:1 gear ratio motor assembly, and remote control integration for a new Genesis 90 model and car mover for car exhibitions
- Developed hands-on proficiency in MAG welding, CNC machining (mill/lathe), wiring, and general fabrication.

## EXTRACURRICULAR ACTIVITIES

### DeSCENT mission, Space Systems Design Studio

Ithaca, New York

Ground-station member

Sep 2025 - Present

- New member for SSDS's DeSCENT mission (under Prof. Mason Peck) to recover 100+ ChipSats by designing a distributed ground station for real-time tracking, RF signal reception, and GPS/sensor data visualization during atmospheric descent.
- Integrated LoRa receivers, amplifiers, and directional antenna arrays; tested 915 MHz pipelines with LilyGO T-Beam hardware; and simulated antenna link performance for reliable signal capture.
- Gained hands-on experience in antenna system calibration, pin selection, and Smith chart analysis, while completing workshops on antenna design and CNC CAM machining to support both electrical and mechanical development.

### Cornell Steel Bridge Project Team

Ithaca, New York

Construction, Welding subteam member

Sep 2025 - Present

- New member for an undergraduate team that designs, fabricates, and constructs a 20-ft scale steel bridge for the AISC/ASCE Student Steel Bridge Competition
- Collaborating with 30+ team members to down-select the 2026 bridge concept using SSBC criteria and constructability constraints
- Participated in multiple workshops on MIG welding, fit-up, mill/lathe/bandsaw/drill-press basics, and shop safety

### Engineers for a Sustainable World (ESW)

Ithaca, New York

Alumni & Marketing Subteam member

Oct 2024 - Present

- Strengthened alumni and corporate relations by maintaining communication channels and fostering partnerships, contributing to ESW's mission of developing sustainable engineering solutions
- Enhanced team visibility and outreach through the creation of promotional materials and management of social media platforms, effectively communicating ESW's projects and initiatives to a broader audience

### Society of Women in Business (SWIB)

Ithaca, New York

Analyst of Emerging Leaders Program

Sep 2024 - April 2025

- Developed analytical and presentation skills by conducting a semester-long research project on Commercialization of AI
- Enhanced teamwork and leadership abilities through a 10-week program involving team-based projects, professional development workshops, and mentorship from experienced associates
- Gained industry insights and business acumen by engaging in skill-building sessions on resume critiques, interview strategies, PowerPoint presentations, and networking best practices

## ACTIVITIES & INTERESTS

Cornell Entertainment Engineering & Design Club, Cornell Outdoor Odyssey; Cornell Rock Climbing Club; Korean American Student Association (KASA); Hiking; Learning languages (Spanish, Japanese)