

# Usanbolor Amartuvshin

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## EDUCATION

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**Cornell University**, College of Engineering, Ithaca, NY

Bachelor of Science: Mechanical Engineering **GPA: 3.6**

**Expected May 2027**

*Relevant Coursework:* Statics and Mechanics of Solids • Thermodynamics • Python • Differential Equation • Linear Algebra

## SPECIALIZED SKILLS

Technical: AutoCAD, Fusion360, Altium, Mill and Lathe trained

Language: Mongolian (fluent); English (fluent)

## ENGINEERING EXPERIENCE

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**Ergonomics Subteam member, Cornell Formula SAE Project Team**, Ithaca, NY

**Feb. 2024 - Present**

- Collaborate with the team to build, design and test parts for electrical formula style race car
- Currently working on designing and building a steering wheel that is rigid, lightweight, waterproof and comfortable to maximize driver and car performance overall.
- Developed new ideas to integrate, manufacture and test electrical parts within the steering wheel.
- Designing personalized steering wheel grips using CAD free-form

**Society of Women Engineers,, Member**, Cornell University

**Sep. 2023 - Present**

- Planning events for Junior Girl Scout troops, working with coordinators of GS, coordinating the activities and volunteers as a committee member

**Society of Women Engineers (SWEnext), Vice President**, Chicago IL

**Sep. 2021 – May 2023**

- Lead outreach programs at elementary schools and networking, training events at my high school to change the perspective of STEM fields among girls.
- Utilized technologies we have at our high school and taught how to workshops at SWE meetings. Such as a 3D printer, laser cutter and Cricut etc.

**Robotics, co-lead of the girls team**, Chicago IL

**Sep. 2019 – May 2023**

- Designed and built robots with different functions based on the yearly challenges through VEX competition
- Taught and led workshops for basic skills for new members

## RELEVANT PROJECTS

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**Mentee, ACE**, Chicago, IL

**Sep. 2022 – May 2023**

- Working hand in hand in the “Lindblom” project as a mechanical engineer.
- Obtaining and learning skills from professionals in engineering fields, with focus on mechanical systems within the buildings.

**Engineering Design Class**

**Spring 2023**

- Worked on the passion project “Flip Up” (Vestaboard) with the goal of replacing the Marquee sign commonly used by Theatres and Hotels with a safer upgraded design that still keeps the aesthetic feel of the structure of marquee sign
- Created and Designed multiple small projects that utilized softwares such as On-shape, Fusion 360, laser cutter, 3D printer etc.

## ACTIVITIES/INTERESTS

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Society of Women Engineers ; Cornell Racing; Between the Pages: As a treasurer I handle the finance side of our club and in charge of ordering books and miscellaneous; Crocheting, Whittling, Running, Morin Khuur (Mongolian traditional instrument)