

Damayanti (Maya) Chakraborty

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY

Expected May 2027

- Mechanical Engineering, Bachelor of Science

Cumulative GPA: 4.1/4.3

Relevant courses: Dynamics, Mechanical Design, Statics and Mechanics of Solids, Thermodynamics

United World College of South East Asia (UWCSEA), Dover Campus

Aug 2014 - May 2023

- International Baccalaureate Diploma Programme: 43/45

May 2023

- International General Certificate of Secondary Education: 9 A*

June 2021

EXPERIENCE

Cornell Baja SAE Project Team, Cornell University

Drivetrain Lead

July 2025 - Present

- Lead a team of 12+ people to design and build the driveline for an off-road racing vehicle to compete at Baja SAE
- Responsible for the integration of the driveline with the rest of the vehicle
- Utilize CAM to CNC mill and machine parts on a CNC/manual lathe

Drivetrain Subteam Member

Oct 2023 - July 2025

- Designed, tested, and validated the design of the dog clutch on the 2025 season car using CAD and ANSYS FEA
- Optimized the dog clutch design to minimize the weight of the dog gears by 63% and the dog clutch by 24%, improve serviceability, and improve integration with surrounding driveline components
- Responsible for machining parts of the dog clutch on a CNC mill and creating drawings for manufacturing
- Designed and manufactured the propshaft bearing casing to support the propshaft and minimize shaft deflections for the 2024 season car on a CNC mill

Rapid Prototyping Lab, Cornell University, *Technician*

Oct 2024 - Present

- Operate and maintain 12+ 3D printers and laser cutters in a student-run lab (Bambu, FormLabs, Stratasys, etc.)
- Proctor open hours and advise Mechanical Engineering students and faculty on 3D prints and laser-cut designs

Rev Ithaca Startup Works, *Prototyping Hardware Instructor*

May 2025 - Aug 2025

- Assist 20+ interdisciplinary startups with prototyping and iterative product development
- Manage and maintain various equipment in the shop, including CNCs, Laser cutters, and 3D printers
- Train & instruct entrepreneurs on the use of prototyping equipment, different fabrication methods, and the hardware development process

SKILLS

Software: Solidworks, HSMWorks, ANSYS (Finite Element Analysis), Fusion 360, MATLAB, Java

Manufacturing: Tormach CNC, CNC Lathe, Manual Lathe, Manual Milling Machine, 3D Printing, Laser Cutting