

Suyash Gundecha

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Education:

Northeastern University, Boston, MA

Graduating: May 2027

Candidate for Bachelor of Science in Mechanical Engineering

Engineering GPA: 3.79

Honors: Dean's List (all semesters)

Engineering Courses: ME Design, Fluid Dynamics, Thermal Systems and Analysis, Measurement and Analysis, Electrical Engineering, Dynamics, Thermodynamics, Material Science, Mechanics of Materials, Statics, Cornerstone I-II

Activities: Member of the Institute of Industrial and Systems Engineering Northeastern (IISE),

Member of Northeastern University Robotics

University College of Dublin, Dublin, Ireland

Sep 2023 - Dec 2023

Candidate for Bachelor of Science in Mechanical Engineering

Global Scholars Program

United World College South East Asia, Singapore

May 2023

Honors: International Baccalaureate Degree

Activities: Kolkata Global Concern, Astronomy Club, Robotics Club, Kahaani Dance Production

Skills & Achievements:

Applications: SolidWorks, Microsoft Office, AutoCAD, AutoDesk Fusion, Creo Parametric

Programming: MatLAB, C++, Arduino IDE, Python

Machining: FDM 3D Printing, Laser Cutting, CNC machining

Achievements: Taekwondo Black Belt Dan I & II Certification, Science Fair: Winner in Theoretical Division

Work Experience:

Kinetic Engineering PVT LTD, Pune, India — *Engineering Design Intern*

May 2024 - Jul 2024

- Executed simulations and analyzed design feasibility for product integration in the EV sector
- Collaborated with the design team to increase prototyping speed by 8% using Creo Parametric
- Remodelled a retractable cable reel, reducing the volume by 24%, successfully reaching design specifications

Klassic Wheels LTD, Ahmednagar, India — *Engineering Intern*

Jun 2023 - Jul 2023

- Shadowed senior engineers in the design, production, and quality control of wheel rims
- Conducted research and assisted in optimizing rim designs for enhanced durability and performance
- Analyzed production processes for the improvement in product quality standards

Unbox Robotics, Pune, India — *Mechanical Engineering Intern*

Jun 2022 - Jul 2022

- Collaborated to simulate and model the frictional behavior of materials used in robot wheel construction
- Researched material properties and surface interactions to understand wheel optimization
- Designed a test model for evaluating coefficient of friction, contributing to a 10% improvement in traction

International World Federation Taekwondo, Singapore — *Assistant Teacher*

Feb 2019 - Aug 2023

- Taught Taekwondo techniques, focusing on punching and kicking fundamentals
- Led group sessions of 20+ students to reinforce technique and discipline, fostering growth and self-improvement
- Provided one-on-one coaching to underperforming students, helping 6 advance to the next level

Academic/Personal Projects:

Mini Trash Compactor: ME Design Northeastern University

July 2025 - Aug 2025

- Conducted structural analysis including static, buckling, and fatigue calculations; refined CAD models through FEA simulations
- Designed a desktop trash compactor using a chain-driven dual lead screw system, T-slot aluminum frame, and motor-belt assembly

Sustainability in Cities Cornerstone I & II Project Northeastern University

Jan 2024 - April 2024

- Designed a physical/digital game to model sustainable cities, integrating real-life scenarios such as flooding and forest fires
- Developed the game using SolidWorks, AutoCAD, MATLAB, Arduino IDE, and laser cutting for decision-making simulations

Nightlight Power Bank

Oct 2022 - Feb 2023

- Designed a 2-in-1 compact device for charging electronics and serving as a torch for outdoor activities using 3D modeling, CNC machining, and laser cutting

Electronic Lock Box

Jan 2022 - June 2022

- Developed an electronic device to reduce distractions for individuals with ADHD using AutoDesk Fusion, CNC machining, and laser cutting