

Suyash Gundecha

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Education:

Northeastern University, Boston, MA

Candidate for Bachelor of Science in Mechanical Engineering

Graduating: May 2027

Engineering GPA: 3.70

Honors: Dean's List (All Semesters)

Engineering Courses: Foundations in Data Analytics Engineering, Systems Analysis and Control, Computation and Design, ME Design, Fluid Dynamics, Thermal Systems and Analysis, Measurement and Analysis, Electrical Engineering, Dynamics, Thermodynamics, Material Science, Mechanics of Materials

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

International Experience: University College of Dublin, Dublin, Ireland

Candidate for Bachelor of Science in Mechanical Engineering

Sep 2023 - Dec 2023

Global Scholars Program

United World College South East Asia, Singapore

Honors: International Baccalaureate Degree

May 2023

Skills & Achievements:

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

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

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 structural simulations and analyzed design feasibility for product integration in the EV sector
- Cooperated 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

- Conducted research on optimizing rim designs for enhanced durability, performance and instrument adaptation
- Shadowed senior engineers in the design, production, and quality control of wheel rims for mass production
- Visited multiple plants across different industries to study varying industry specifications

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