

DHEER PATEL

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EDUCATION

- University Of Illinois Urbana Champaign, Illinois, United States of America** 2025-29
 - *Systems Engineering and Design, Freshman*
- Jamnabai Narsee International School, Mumbai, India;** 2023-25
 - *International Baccalaureate Diploma Program, Grade 12;*
- Jamnabai Narsee School, Mumbai, India** 2013-23
 - *Indian Certificate of Secondary Education, Grade 10;*

STANDARDIZED TESTS AND APS

- SAT Test Total – 1460; Math – 730; English Reading and Writing – 730; 2024
- AP Examinations: Computer Science A – 5; 2022

ACADEMIC HONORS AND AWARDS

- Dean's List, Grainger College of Engineering 2026
- James Scholar at UIUC 2026
- Hong Kong International Math Olympiad (HKIMO) – Gold Award 2023
- Hong Kong International Math Olympiad Finals (HKIMO Finals) – Bronze Award 2023

LEADERSHIP & MENTORING

- **Head Boy** in Grade 10 Student Council (Certificate of Commendation awarded for Head Boy, Senior Student Council) 2022
- **House Captain** in Grade 12 Student Council (Certificate of Commendation awarded for House Captain, Senior Student Council) 2024
- **Jamnabai Adolescent Mentor (JAM)** Member in Grade 11 & 12 2024
- **Founder & Executor** of S.E.N.S.E Community Project (2023-24) 2024

TECHNOLOGICAL INNOVATION

- **Inventor and Developer of INHALYZE - Smart Inhaler** 2024
 - Researched, designed and developed a prototype of INHALYZE - A Smart Inhaler with innovative solutions for improved respiratory health management for Asthma and COPD patients.
 - Shortlisted as **Finalist** to present INHALYZE at **The IRIS National Fair**.
- **Autonomous Safety Braking System** 2022
 - Developed an autonomous safety braking mechanism for bicycles to prevent collisions, utilizing sensor data for enhanced safety.
 - Published Research paper on this innovation in the NAIRJC (North Asian International Research Journal)

ENGINEERING EXPERIENCE

- **Internship at D. Parikh Engineering Works, Mumbai** 2024
 - D. Parikh Engineering Works, ISO 9001 certified, is India's leading manufacturer of Basket centrifuges with a rich history dating back to 1948. The company specializes in innovative centrifuge solutions, supporting industrial processes in liquid-solid separation.*
 - Wrote a paper entitled 'Manufacturing of Industrial Pharmaceutical Centrifuges'
 - Assisted in the design and manufacturing processes of Pharmaceutical Centrifuges, gaining hands-on experience in mechanical engineering and understanding of precision tool development
- **Internship at Image Gravures, Gujarat** 2024
 - Image Gravures is a leader in the printing and packaging industry, specializing in precision-engineered rotogravure cylinders for high-quality print solutions. Renowned for its innovation and customer-centric approach, they delivers customized, superior packaging solutions across various industries.*
 - Wrote a paper entitled 'Manufacturing of Gravure printing Cylinders'
 - Contributed to the workflow by learning technical aspects of gravure printing, quality control and process optimization in industrial settings

ROBOTICS ACHIEVEMENTS

- **FIRST Tech Challenge (FTC)** 2023
 - **FTC Nationals Connect Award; FTC Internationals Robot Game Semi Finalists; FTC Internationals Judges Choice Award**
 - **Dean's List Semi-finalist**
 - Conducted robotics and coding workshops for 20+ students with Autism and Down syndrome to develop their skills in robotics
 - Mentored 200+ students from disadvantaged backgrounds, guiding them in building their first robots using LEGO EV3 Mindstorms kits
 - Set up three robotics labs in underserved schools, giving 750+ students daily access to robotics education
- **FIRST Robotics Challenge (FRC)** 2024
 - **FRC Worlds Rookie All Star Award; FRC Regionals Rookie All Star Award**
 - **FRC Regionals Finalist Alliance Captain; FRC Regionals Excellence in Engineering Award**
 - Led hands-on robotics workshops, mentoring 15,000+ students across underserved communities, introducing them to STEM and robotics
 - Established seven fully operational robotics labs in underserved schools, enabling 2,500+ students to engage in robotics education
 - Engaged 260,000+ people through digital outreach efforts on social media, promoting STEM education and robotics through reels
 - Raised \$21,600 in funds from corporate sponsors to support community outreach efforts and tech education for underprivileged students
- **World Robotics Olympiad (WRO)** 2022
 - National Rank 3