

RAAKESH K

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EDUCATION

COLLEGE OF ENGINEERING, GUINDY, ANNA UNIVERSITY	(2021-2025)
Bachelor of Engineering in <i>Mechanical Engineering</i>	CGPA- 8.06/10.0 (<i>Till Sem 5</i>)

HSCE 2021 , Class XII, CBSE	Score-96.6%
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SSLC 2019 , Class X, CBSE	Score-96.2%
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TECHNICAL SKILLS

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- **Programming languages:** Python, MATLAB.
 - **Designing Software:** AutoCAD, SolidWorks,
 - **Analysis Software:** ANSYS Workbench.
 - Vehicle dynamics, Topology Optimization, Welding & Grinding, 3D Printing (FDM)
 - **Languages:** English, Tamil, Hindi.

INTERNSHIP EXPERIENCE

DESIGN INTERN

RANE NSK STEERING SYSTEMS

JUN-JUL 23

- We as a team ***reduced the rejection of Needle Roller Bearing in UV joints to 7% from 16%*** in a day's mass production by designing an optimized fixture for hydraulic pressing machine in assembly line.

AREAS OF INTEREST

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|--|---------------------------|-------------------------------|
| • Product designing and Modelling | • 3D Printing | • Analysis using ANSYS |
| • Micro Sand Blasting | • Vehicle Dynamics | |

WORKSHOPS

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- Attended **IC engines, Automotive Systems, EV workshops** by Society of Mechanical Engineers
 - Attended **CFD and Structures Workshop** by ANSYS
 - Visit to **Mahindra Research Valley (MRV)** for a student-only Workshop on the **Future of Born-EVs** and exposure to **Testing Lab Facilities**.

PROJECTS

MICRO SAND BLASTING

JUN 23

- *Designed and fabricated a 3D printed model meeting tight tolerances* with provision for nozzle and jet machining ensuring precise material removal.

POSITION AND RESPONSIBILITIES

- **CEG MOTORSPORTS** (Official SAE Collegiate Club of CEG)

DATA ACQUISITION LEAD

MAR 24-PRESENT

- Hands-on experience in designing and testing complex suspension systems for off-road vehicles by conducting *rigorous testing to ensure the safety and performance of our designs*.

SUSPENSION VERTICAL MEMBER

APR 22 - MAR 24

- Assisted in the *Design and Fabrication of a one-seater 4WD ATV for BAJA SAEINDIA 23 and BAJA SAEINDIA 24 (an All-India ATV competition)* with a team of 30+ senior engineers and technicians. Skilled in collaboration with suppliers, and vendor selection for custom materials and components.

- **CEG TECH FORUM** (UNESCO recognized Kurukshetra Event Organizer)

HR VOLUNTEER

MAR 22- SEP 22

- Gained valuable practical experience in managing logistics, talent management, communication, and leadership for a dynamic student-led organization.

IR AND MEDIA COORDINATOR

OCT 22- MAR23

- Managed Media coverage and created Photo/Video content for social media which provided the forum with a great Outreach and coordinated a positive relation with industry professional

ACHIEVEMENTS

- Participated in Olympiads such as National Science Olympiad (NSO) and secured top places in my school.
- Won 20+ awards in co-curricular activities, public speaking, literary, drawing competitions.
- We as a team secured *AIR 1 in Engineering Design, Technical Innovation, Best 4WD*, and an *Overall AIR 12 in mBAJA '23*.
- We as a team secured *Best Debutant Team, AIR 3 in Sled Pull Event, AIR 2 in Maneuverability event*, and an *Overall AIR 4 in eBAJA '24*.
- Volunteered in successful Techno-Management Fests like *Kurukshetra and Vyuhaa* in 2022 and 2023 by UNESCO-recognized and ISO-certified CTF.
- Conducted a *Workshop on Fundamentals of Vehicle dynamics* with my fellow mates from CEG Motorsports in an inter-college symposium.
- *Official Member of SAEINDIA.*