Beerakuppam Naveen Teja

3rd Year Undergraduate
Department of Aerospace Engineering

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Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2020 - Present	B.Tech	Indian Institute of Technology, Kanpur	7.5/10
2019	IPE(XII)	Sri Chaitanya Junior college, Tirupati	9.88/10
2013	SSC(X)	Jaganmatha English Medium School, Tirupati	10/10

Scholastic Achievements

- Secured **All India Rank 1397** in **JEE mains B arch** among the 138k candidates.
- Secured **Rank 676** in **TS EAMCET** Exam among 89k qualified students. ‘
- Secured **Rank 295** in **AP EAMCET** Exam among 78k qualified students.
- Receipent of Class Of 1973 Merit Cum Means scholarship(**MCM**), awarded for good acadamic performance.

Key Projects

- **LMiT(Last Mile Transporter)**
  Mentor: Prof. Indranil Saha, Department of computer science Engineering,IIT Kanpur. (*Aug‘22- Ongoing*)
  - Leading a team of 3 UG students to build Last Mile Transporter(LMiT) from scratch with the aim of **automating** and **solving indoor last-mile delivery problems** at **IITK**.
  - Completed the infrastructure of the model after optimizing for the POC.
  - Working on the balancing of the LMiT using **MPU sensors** and various **data-driven control techniques**.
  - Technical Skills: **CAD modelling** (Fusion 360, SolidWorks, machining and fabrication)
  - Soft Skills: Leadership, Teamwork, Logical Thinking, Critical thinking.
- **Digital Image processing using python**
  Mentor: Prof.Tushar Sandan, Department of Electrical Engineering, IIT Kanpur. (*july‘22-Nov‘22*)
  - Understood the properties of the **digital images** and various procedures to improve image quality.
  - Studied about various **kernels(filters)** used in processing of the images and analyzed various formats of the images based on requirement and created digital number shower which takes input number and displays in **dotmatrix** and learnt about libraries like **openCV** , **Numpy** , Matplotlib .
  - Created code for some filters like **bilateral** etc.. in python inorder to process the image to get required output.
- **Fusion 360-summer project , Aeromodelling club** (*SnT project*)
  - Learnt about various features of **Fusion 360** and analyzed the simulations and made **CAD models**.
  - Modeled aeroplane,head phones,game controller etc.. using Fusion 360.

Technical Skills

- **Programming Languages:** C, C++, HTML, LaTeX, CSS , MATLAB, Python .
- **Software and Libraries:** Fusion 360, Git, Micro-Cap , Simulink , Numpy , OpenCV , Matplotlib , UPPAL , system-identification tool box(MATLAB) .

Relevant Courses

**** = A grade and * = ongoing course**

Embeded and Cyber-physical systems	Image Processing
Fundamentals of Computing	Fluid mechanics and rate processes
Introduction to Electronics	Flight mechanics
Complex variables	Dynamics
partial Differential equations	Thermodynamics
Manufacturing processes I**	Solid Mechanics**
Helicopter Theory:dynamics and aeroelasticity*	Introduction to Machine Learning*

Extra-Curricular Activities

- Part of **IIT Kanpur Weightlifting Team** under a compulsory Physical Activities.
- Participated in **Udhgosh‘21 - National level** IITK Inter Collegiate Sports Fest in **Hammer-throw event**.
- Participated in **Udhgosh‘22 - National level** IITK Inter Collegiate Sports Fest in **Weightlifting event**.
- Participated in **Udhgosh‘22 - National level** IITK Inter Collegiate Sports Fest in **Powerlifting event**.
- Represented **IIT kanpur** in **Weightlifting event** in **56‘th INTER-IIT MEET** under 62kgs catergory.