

MASETTY AKSHAY

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EDUCATION

B. TECH: Mechanical Engineering
Anurag Groups of Institution
2019 – 2023
9.5 CGPA

INTERMEDIATE in MPC
Sri Gayatri Junior College
2017 – 2019
95.6%

KEY SKILLS

1. C-Programming
2. Python
3. MATLAB
4. Data Structures
5. FORTRAN
6. Auto CAD
7. Julia
8. Qiskit

PERSONAL PROFILE

I am Masetty Akshay a 4th year Mechanical Engineering student with a great interest in Quantum Computing and, Data Science. I have great analytical and time management skills and work well in complex environments too. I can quickly understand new tasks and a determined hard-working person.

PROFESSIONAL EXPERIENCE

- **Research Intern, QWorld**

2021 July – 2021 August

My team and I have worked on Solving Vehicle Route Problems and Variants using Quantum computing. I have worked on QUBO Formulation and time windows parameter.

- **Research Intern, Abyom SpaceTech and Defense Pvt.Ltd**

2021 June – 2021 September

Completed research on Smart nanomaterials, it's application and nanomaterials fabrication methods and wrote a review paper on "A Review Study on Smart Nanomaterials and its applications".

- **FEA/CFD Intern, Elite Techno Groups**

2021 August – 2021 September

During the Internship got trained in the Technical concepts, Industrial applications involved in CFD industry and working on the performance and analysis of Orificemeter.

- **Research Intern, Society for Space Education and Research Development**

2021 January – 2021 February

Researched on Sounding Rockets and Designed an M-class Solid Rocket Engine for Testing purposes and a Stage separation Mechanism for a 2-Stage Sounding Rocket. CAD tools models of Engine and a Stage separation mechanism were made.

- **Research Intern at Orbital Space Technologies and Learnings, India**

2021 October

Currently Doing Research in the field of Dark Matter and Dark Energy. Working on Interacting Dark Energy Model and Spherical Collapse Model.

- **Research Intern at Artificial Brain Technologies**
2022 January

Currently working on Quantum Space use cases i.e. trying to work on the potential applications in which Quantum Computing is Integrated into Space Domain. The use case I am currently working on is Mission scheduling optimization of SAR satellite constellation for minimizing system time response.

- **Product Design Intern at Mechathon Engineering Pvt. Ltd**
2021 November – 2022 January

As an Intern, I supported the design and development team at Mechathon Engineering and worked on the project design optimization of the Multi Plunger Positive displacement pump.

- **Project Intern at Stellarion Energy Private Limited**
2022 March – 2022 May

I am currently working on thermal analysis on the subsystem of a payload i.e a camera of a lander. This project is done in collaboration with Moon Village Association.

CERTIFICATIONS & CPD ACTIVITY

- Completed Rocket Science and Engineering Course in Udemy.
- Completed Virtual Rocket Design Challenge organized by Helium Learning Labs and SDNx Foundation.
- Completed Introduction to Quantum Computing Course organized by Qubit by Qubit and The Coding School.
- Completed Diploma in Quantum Computing and Programming organized by QWorld.
- Completed Qiskit Global Summer School 2021 organized by IBM.
- Completed Machine Learning for Physicists Course organized by Fredrich-Alexander - University of Erlangen-Nuremberg.
- Completed Quantum Mechanics Course through Coursera.
- Completed Quantum Physics/ Quantum Computing: A University-level Course in Udemy.
- Complete Online Course in Python at Code in Place Organized by Stanford University.
- Completed 7 days boot camp in Machine Learning with Python organized by ShapeAI.
- Completed online course Python at Dhaapps Academy.
- Completed Escape Summer School on Data Science Astronomy, Astrophysics, and Particle Physics.

ACCOMPLISHMENTS

- Titled Citizen Scientist by NASA for my contributions to the observations of near-Earth objects and Main belt asteroids by analysis of the images from Pan-STARRS.
- Among the top 100 performers across entire South Asia for successful completion of the Science Communication Challenge organized by Life Lab Education and Research Foundation.

PUBLICATIONS

- “Theoretical Aspects on Design and Performance Characteristics for Solid Rocket Motor”, International Journal of All Research Education and Scientific Methods, Volume 10, Issue 2, 2022.
- “A Review Study on Smart Nanomaterials and their Applications”, Rest Publisher, 2022.
- “Chemical Rocket Motors for Space Launch Applications: Parametric Approach”, REST Journal on Emerging trends in Modelling and Manufacturing, Volume: 8(1), 2022, Pages 48--51
- “Convergent-Divergent Nozzle for Supersonic Rocket Launch Vehicles: Theoretical and Computational Study”, International Journal of All Research Education and Scientific Methods, Volume 10, Issue 5, 2022.

DECLARATION

- I hereby declare that the above information is true to the best of my knowledge.

Masetty Akshay.