



Neha Baraya

MTech. – Machine Design

Gender: Female

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Educational Qualifications

| Year of Passing | Degree/Examination | Institution/Board | CGPA/Percentage | |
|-----------------|-----------------------------------|---|-----------------|---------|
| 2024 | MTech. Machine Design | NIT, Warangal | Sem-1 | 8.17/10 |
| 2021 | B.Tech. Mechanical Engineering | School of Technology, Pandit Deendayal Energy University, Gandhinagar (Gujarat) | 9.63 | |
| 2017 | Class XII | Kendriya Vidyalaya(SAC), Ahmedabad Affiliated to CBSE, New Delhi | 90.6% | |
| 2015 | Class X | Kendriya Vidyalaya(SAC), Ahmedabad Affiliated to CBSE, New Delhi | 10.00 | |

Academic Achievements

- Design Patent of Autonomous Disinfectant Robot: Participated in covid hackathon on the topic: Design and Development of robot to sanitize hospital rooms using Ultra-Violet rays (Proto type). The proposed invention was designed to carry the UV-C rays emitting light source autonomously to some high-risk zones for disinfection purpose. Published by Office of The Controller General of Patents, Designs and Trade Marks (CGPDTM), Government of India in Journal number 03/2021.
- Successfully completed B. Tech final year project in Space Applications Centre (SAC), ISRO, Ahmedabad on the topic "Heat Transfer Analysis of Radiating Fins in Space" from January 2021 to May 2021. The heat transfer analysis of a space radiating fin is carried out numerically by developing a computer code in MATLAB which is based on the control volume method and the results are validated in NX software.

Projects

- Presented a seminar on the topic of "Multiscale Solidification Modelling, Heat Transfer and Microstructure Modelling for Manufacturing Processes" at Pandit Deendayal Energy University (PDEU), Gandhinagar, Gujarat.

Technical Skills and Certifications

- Programming Languages : C++, MATLAB
- Engineering Softwares : NX, Creo
- Other Softwares : Microsoft Word, Microsoft Power Point, Microsoft Excel
- Certifications : NX (Siemens centre Of Excellence , PDEU)
Python (NPTEL)

Extracurricular Activities

- Attended 3 day Workshop on Advances in Mechanical Engg. Design in March 2018.
- Attended 1 day Workshop on Rapid Prototyping-3D in June 2019.
- Attended 2 day Workshop on Theory and Practice: Co-operative Robots & Wind Turbine Blade Prototyping.
- Participated in One-day competition on Microscopic & Macroscopic Metallography organized by Indian Society for Non-destructive Testing (ISNT).
- Attended a workshop on Revisiting CFD: An introduction to ANSYS Workbench, Matlab and Open Foam.
- Displayed oil painting in an exhibition held at Kanoria Centre for Arts (CEPT Campus).
- Displayed various art works in an exhibition held at PDEU.
- Passed elementary and intermediate drawing grade examinations conducted by State Examination board, Gujarat.
- Completed 3 weeks civic social service internship at Shree Pragati Sarvajanic Trust (NGO).

Hobbies

- Oil and acrylic painting on canvas
- Reading books
- Playing badminton