



METTA SRIRAM

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<https://srirammetta101.github.io/portfolio/>

EDUCATION

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|---|-------------|
| Bachelor of Technology <i>Mechanical Engineering</i> | 2016 – 2020 |
| Indian Institute of Technology, Bhubaneswar | CGPA: 8.90 |
| Intermediate <i>12th Class</i> | 2013 – 2015 |
| Narayana Junior College, Visakhapatnam | 95.6 % |

WORK EXPERIENCE

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| Project Assistant | October 2023 – Present |
| Indian Institute of Technology, Ropar | Rupnagar, India |
| <ul style="list-style-type: none">Working on the development of machine learning models for PCM-Metal Foam energy storage systems under the guidance of Dr. Manish Agrawal | |
| Deputy Engineer | February 2021 – July 2023 |
| Bharat Electronics Limited | Bangalore, India |
| <ul style="list-style-type: none">Worked on the design of Military Tactical Shelters under the Ministry of Defence, Govt. of IndiaEmployed new ways to tackle the thermal management issues in the electronics and ruggedizing them | |
| Graduate Engineering Trainee | August 2020 – December 2020 |
| Larsen and Toubro Valves Limited | Coimbatore, India |
| <ul style="list-style-type: none">Worked in Supply Chain Management, dealing with Indirect Purchases | |
| Research And Development Intern | May 2019 – July 2019 |
| Mahindra Research Valley | Chennai, India |
| <ul style="list-style-type: none">Worked on the subsystem design and development of an autonomous vehicleDeveloped a small prototype under the funding of the Society of Automotive Engineers India | |
| Engineering Intern | December 2018 |
| Hindustan Shipyard Limited | Visakhapatnam, India |
| <ul style="list-style-type: none">Worked in the Quality Control department and focused on Industrial SafetyPublished an updated Safety Manual for the company under the direct supervision of the General Manager | |

PROJECTS AND RESEARCH

CFD modeling of energy absorption characteristics of PCM-Metal Composite System, 2019-20

Indian Institute of Technology, Bhubaneswar

- Worked on Phase Change Materials and use their Latent Heat properties to store energy under the guidance of Dr. Anirban Bhattacharya
- Studied the behavior in triple tube heat exchangers and optimized the energy storage prospective in the same. Published a research paper in the *Journal of Energy Storage* with 17 citations to it, as of October, 2023
- Awarded the prestigious Dinesh Memorial Award and Institute Proficiency in Project Work Award

CanSat Competition - 2019

NASA Goddard and American Astronautical Society (AAS)

- Developed a unique blade design for the Auto-Gyro-based landing technique, as part of the problem statement, to avoid damage to the payload

Personal Portfolio

More projects I have worked on, have been published on my *Personal Portfolio* along with the results and codes.

PUBLICATIONS AND CERTIFICATIONS

Analysis and optimization of triple tube phase change material-based energy storage system

Sriram, M., & Bhattacharya, A. (2021). Journal of Energy Storage, 36, 102350

Development of ML-based models for PCM-metal foam energy storage systems (In Preparation)

Metta Sriram, Tanmayee Kopparthi, Manish Agrawal, Anirban Bhattacharya

Poster Presentation at Metrix 5.0, Annual event of the Dept. of Mechanical Engineering, IIT Ropar

Represented the Numerical Methods and Simulation Lab headed by Dr. Manish Agrawal, November 2023

Certified Course on ANSYS and CATIA

Indo-German Institute of Advanced Technology, Visakhapatnam, June 2018 – July 2018

Basic Statistics & Introduction to Six Sigma

Bharat Electronics Limited Academy of Excellence, April 2022

Quality Tools for Analysis

Bharat Electronics Limited Academy of Excellence, April 2023

ANSYS ICEPAK Thermal Management Training

CoreEL Technologies, June 2022

SKILLS

Languages: Telugu (Native), English, Hindi

Programming: C, FORTRAN, Python, MATLAB

Softwares: SolidWorks, ANSYS, CATIA, Altair (Inspire Cast), Adobe Photoshop, Arduino, MS Office

LEADERSHIP

Governor, Robotics & Intelligent Systems Club (RISC)

2018 – 2019

Acted as Governor of the club at IIT Bhubaneswar, while being an active member from 2016 – 2020

Event Coordinator, Yanthrix

2017 – 2019

Acted as the event coordinator (conducted by RISC), as part of WISSENAIRE, IIT Bhubaneswar

Core Head, E Summit

2016 – 2018

Acted as Core Head of The Annual Entrepreneurship Conclave, E Summit, IIT Bhubaneswar

Member, Knocksoniacs

2017 – 2019

Member of the team under the Society of Automotive Engineers (SAE) and participated in BAJA

Member, AWC, IIT Ropar

2023 – Present

AWC (Animal Welfare Committee) member dedicated to tending to stray animals and their injuries.

ACHIEVEMENTS & ADDITIONAL ACTIVITIES

Dinesh Memorial Award

Endowment award for Best B. Tech thesis work at IIT Bhubaneswar, 2020

Institute Proficiency in Project Work

Awarded for the project work done on Phase Change Materials for the year 2020

CANSAT Competition, 2019

Secured 63rd rank among the teams participating all over the world

Joint Entrance Examination, 2016

Selected in the top 1 percentile of students across India

10K Marathon, Rotary Club Bangalore, 2022

10 Km Run for spreading awareness on Cancer

200K Race, Bangalore Cycling Club, 2022

200 Km cycling, as part of endurance racing