VISHAL KABI

P E R S O N A L   I N F O

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📍 Hyderabad/India

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S U M M A R Y

Seeking a career in the field of Aerospace and thermal engineering to utilize my expertise both in technical and non-technical from the experiences gained while working as JRF in DRDL and during academical career. Adept in CFD simulations through the experiences developed while working in the field of combustion and thermal sciences during the current tenure in DRDL and masters in thermal engineering. Excellent problem solving skills and ability to perform well in a team. Innovative, creative and willing to contribute ideas and learning new things in the wake of helping the organization achieve their targeted goals.

E D U C A T I O N

Masters of Technology (M.Tech)

Thermal Science and Engineering

Indian Institute of Technology, Kharagpur
2019-2021

Bachelor of Technology (B.Tech)

Mechanical Engineering

Veer Surendra Sai University of Technology, Burla
2014-2018

Intermediate, +2 (Science)

Mother's Public School, Bhubaneswar
2012-2014

Matriculation, 10th (Science)

Stewart School, Bhubaneswar
2011-2012

E X P E R I E N C E

Junior Research Fellow

DRDL / Hyderabad, India /2021-Present

- Working in the field of computational fluid dynamics (CFD).
- Expertise in internal flow simulations for combustion modeling and analysis for air-breathing and non air-breathing engines using commercial softwares such as Ansys FLUENT, Star-CCM+, ICEMCFD, Ansys Workbench, Spaceclaim.
- Chemical Kinetics study for ignition delay, flame speed calculations using CHEMKIN and Cantera softwares.
- Fluid Structure Interaction analysis using Fluent and Star-CCM+.
- Conjugate heat transfer study in combustors.
- Reacting and non-reacting simulation in different combustion models.

Summer Intern

SAIL (Rourkela Steel Plant) / Rourkela, India /2016

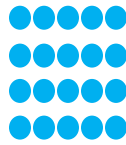- One month vocational training at CPP division.

Summer Trainee

CTTC / Bhubaneswar, India /2015

- Specialization training in "CATIA" software.
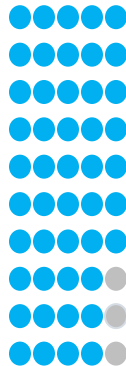- Project on "Manufacturing of Hand Injection Mould".

S O F T   S K I L L S
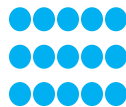
- Teamwork
- Communication
- Critical Thinking
- Flexibility

T E C H N I C A L   S K I L L S

- **Ansys FLUENT**
- **Star-CCM+**
- **SolidWorks**
- **CATIA**
- **CHEMKIN**
- **CANTERA**
- **Python**
- **MATLAB**
- **R**
- **Machine Learning**

L A N G U A G E S   K N O W N

- **English**
- **Odia (Native)**
- **Hindi**

I N T E R E S T S

- Content writing.
- Reading novels.
- Playing lawn tennis, badminton.
- Active participation in quizzes, debates and elocutions.

R E F E R E N C E S

Dr. Kalyana Chakravarthy
Sc 'F', DRDL, Hyderabad, India
Tel: +91-7702273862
Email: v_kalyana_chakravarthy@yahoo.co.in

Ms. Souraseni Basu
Sc 'F', DRDL, Hyderabad, India
Tel: +91-9492053147
Email: souraseni.basu@gmail.com

P R O J E C T S

Research Intern

*Postgraduate Research Program **(Indian Institute of Technology, Kharagpur)**, 2020-2021*

Design and numerical simulation of mesoscale combustor for mini gas turbine applications.

- Design and numerical simulation of porous media combustor using Ansys FLUENT to improve thermal efficiency, increase residence time, reduce emissions and preheat the incoming oxidizer.

Research Intern

*Undergraduate Research Program **(Veer Surendra Sai University of Technology, Burla)**, 2017-2018*

Active wireless structural health monitoring of railway track using PVDF.

- Detection of failure points by analyzing vibrations near the cracks on railway tracks.

A C H I E V E M E N T S

- Secured AIR-627 in GATE-2019 in Mechanical Engineering.
- Obtained AIR-646 in NSTSE-2010.
- Qualified for second round in "INCA quiz 2009" conducted by the "Geological Survey of India".

V O L U N T E E R I N G

Volunteer Administrator

SAROD 2023

- Volunteered in SAROD 2023, 9th Symposium on Applied Aerodynamics & Design of Aerospace Vehicles organized by Defence Research and Development laboratories (DRDL), DRDO, Hyderabad, India.

Event Coordinator

Samavesh 2017

- Event coordinator at Samavesh 2017, "The annual technical fest of VSSUT, Burla (formerly UCE Burla)".

C E R T I F I C A T E S

- Machine learning in MATLAB/OCTAVE through Coursera offered by Stanford University.
- Machine learning with NLP and Deep learning in Python and R offered through Udemy.
- Hands on Python and R programming offered through Udemy.