

# Mohammad Vaseem

**E-mail Id:** [vaseemmohammad1740@gmail.com](mailto:vaseemmohammad1740@gmail.com)

**Phone** : 7995922478

**Address** : H.No:48-41/1, Deepaknagar, Mandamarri, Mancheria dist.

## OBJECTIVE

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To work for an organization which provides the opportunity to improve skills and knowledge to grow along with the organization objective.

## EDUCATION

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Rajiv Gandhi University of Knowledge Technologies-Basar 2018 - 2022

B Tech (Mechanical Engineering).

CGPA is 7.72

Rajiv Gandhi University of Knowledge Technologies-Basar 2016 – 2018

Intermediate in MPC

CGPA :8.14

Sri Krishnaveni High School 2015 – 2016

CGPA : 10

## PROJECT

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**Title :** "Numerical Analysis of an Oscillating Flow in Pulse Tube Cryocooler"

**Abstract:** The analysis was done in **Transient conditions**, with simulations aimed at **Heat Transfer analysis** observing **flow visualization** in one complete cycle, with **varying phase angles between pressure inlet and mass flow outlet** at different positions of the pulse tube. Comparing **simulation time** of bench mark problem "LID- DRIVEN CAVITY" between **Ansys Fluent (290sec)** and **CFD with Julia (29sec)(source code)** for **10000 iterations**

## SUMMER INTERNSHIPS

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**Internship 1:** Feature on Wing Flap to enhance aerodynamic efficiency

**Abstract:** I have done Simulations in Ansys fluent on an Aeroplane Wing which consists of feature on wing flap to enhance the aerodynamic efficiency of a wing. By changing the Angle of attack, alpha and beta angles of wing flap with various velocities.

**Internship 2 :** Hybrid Electric Vehicle

**Abstract:** Designed Hybrid Electric Vehicle, Electric Scooter and E-kart in Catia V5 software and power calculations of motor, battery calculations.

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## SKILLS

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- **Designing Softwares** : Ansys, Autocad, Solidworks, Catia, HyperMesh
- **Operating systems** : Windows, Ubuntu
- **Developmental Tools** : Microsoft Word, Microsoft Excel-sheets, Microsoft power point

## ACHIVEMENTS AND CERTIFICATIONS

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- 2D and 3D model Meshing using Altair Hypermesh (2019)
- Altair Hypermesh Preview Course
- Feature on Wing Flap to enhance Aerodynamic efficiency
- Basic Web Development, in HTML and CSS (**Shape AI**)
- IC engines at **BITS Pilani**
- F1 car modelling , **AMZ, Jan 2020**
- Attended 7<sup>th</sup> Bangalore Space Expo as a Delegate at Bangalore International Space Exhibition Centre.

## HOBBIES

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- Playing Foot-ball
- Mobile Photography
- Playing Cricket

Dated: 16-09-2022

Signature: Mohammad Vaseem