

# R Hridhaya Vanthanan

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Current Location: **Kollam, India** Preferred Location: **PAN India**




**Objective:** Eagerly seeking an opportunity to work in a challenging work environment as a mechanical/thermal engineer that will utilize my technical and professional expertise to learn and grow as a mechanical engineer and build a long-term career in automobile, manufacturing and production sector. By acquiring knowledge, expertise and familiarity with the organization's culture, I want to contribute towards realizing the organization's vision and

## Strengths

- ✓ M.Tech. in Thermal Engineering
- ✓ Excellent documentation skills, technical writing & expertise in handling technical documents.
- ✓ Strong Networking, Interpersonal and Leadership Skills.
- ✓ Self-driven, Need less supervision.
- ✓ Expertise in Applying Various Design and Simulation Tools
- ✓ Excellent IT literacy (MS tools)
- ✓ Strong Written & Verbal communication skills.

## Academic and Technical Qualifications

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- 2020 M.TECH .IN THERMAL ENGINEERING**  
CGPA-7.49/10  
*Cochin University of Science and Technology, Kerala*
  - 2017 B.TECH. IN MECHANICAL STREAM AUTOMOBILE ENGINEERING**  
CGPA-6.9/10  
*Cochin University of Science and Technology, Kerala*
  - 2012 12<sup>TH</sup>**  
77%  
*CBSE, SN Trusts Central School, Kollam*
  - 2008 10<sup>TH</sup>**  
GPA-9.6/10  
*CBSE, St. Jude Central School, Kollam*

## Professional Experience & Projects

### ❖ DESIGN ENGINEER

#### Lucent Drive (September 2021 – Present)

- Mechanical design and optimization of wind turbine blades
- CAD modelling and assembly of the wind turbines
- Structural simulation and optimization of wind turbine blades
- Composite modelling of wind turbine blades and CFD Simulation

### ❖ JUNIOR PROJECT ENGINEER

#### MERAKI7 (April 2020 – March 2021)

- Preparation and maintenance of documents as per ISO standards
- Establish Project governance structure and Client Liaising
- Project Coordination
- Technical documentation
- Drafting of project and product documents

## ACADEMIC PROJECTS

### **Drag Reduction of a Circular Cylinder using Wake Splitter Plates** (CUSAT, 2020)

- ❖ Flow over circular cylinder with and without splitter plates are experimentally and numerically investigated using ANSYS Fluent to obtain the effects of wake characteristics
- ❖ The effect of splitter plate orientation on the drag coefficient and Strouhal number has been investigated for different models by changing the distance between cylinder and splitter plate

### **Experimental and Numerical Investigation on Normal Flat Plates in Tandem** (CUSAT, 2020)

- ❖ Flow visualization study on the flow over normal flat plates in tandem was experimentally and numerically studied
- ❖ The variation of the wake parameters as a function of the gap ratio between two plates was investigated

### **Experimental Setup for Vibration of a Box Stationed on a Flexible Spring** (SCT, 2017)

- ❖ Developed an experimental setup for measurement and real time visualization of vibration of a box stationed on a flexible spring
- ❖ Reduced the vibration amplitude by loading different masses to the box

## Software Packages

- ❖ **Modelling** : Solidworks, ProE, Catia.
- ❖ **Computational Analysis** : ANSYS Fluent, MATLAB
- ❖ **Statistical Data Analysis and Post-processing** : Microsoft Office , Fluent Post-Processing

## Personal details

Nationality	:	Indian
Gender	:	Male
Date of Birth	:	10 March 1994
Marital status	:	Unmarried
Languages	:	English/ Hindi/ Malayalam/ Tamil

## Reference

Joshay P. J, Associate Professor, Division of Mechanical Engineering, School of Engineering, CUSAT.  
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