

# Mohammed Qadeer Mohammed Taheer

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## SUMMARY:

A highly motivated and dedicated individual seeking to pursue PhD program in Aerospace and Mechanical to further develop my knowledge and contribution to the advancement of the field.

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## EDUCATION:

- **Masters of Technology in Mechanical Engineering**, University of Mumbai, 2022

**Experimental investigation of the importance of fluidic manifold design and orientation on flow boiling instability in micro-channel heat sink**

**Objective:** To analyze experimentally the heat transfer performance of the micro channel test section & to analyze the influence of gravity on the micro channel for various orientations.

**Result:** Reduce the Surface Temperature and Pressure drop by 40%.

- **Bachelor of Engineering in Mechanical Engineering**, SPPU, 2019

**Experimental and simulation of Design of Spherical Turbine to generate energy from waste water for rural area development**

**Objective:** To design and simulate the new design of the spherical turbine.

**Result:** Able to generate the 0.1 kW of electricity with the flow rate of 0.2 lpm.

- **Diploma in Mechanical Engineering**, MSBTE, 2016

**Design of Thermo electric cooler for small volume**

**Objective:** To cool the confined space in less time.

**Result:** Design and Developed the TEC (Thermo Electric Cooler) to cool the 0.06 m<sup>3</sup> from the atmospheric temperature to -5 °C in 5 min. and improve COP up to 2.

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## RESEARCH EXPERIENCE:

**Junior Research Fellow, Indian Institute of Technology, Bombay**, Currently working – Sep. 2022

- **Design** Single phase laminar flow in **micro-channel heat sink** and **develop nanostructure** in the channel and compare the pressure drop.
- **Design and Develop** the **fractal channel** diverging cross section of the channel and compare it with straight fractal channel.

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## INTERNSHIP:

- Jr. Design Engineer, Wisetech MEP Consultant Pvt Ltd, Mumbai, Aug 2020 – Jan 2021
- Renewable Energy Resources, INSTITUTE OF ADVANCED MATERIALS, Sweden, Nov 2021 – Jan 2022
- Privacy lost on Education Website and its impact on Students and Learning, University of Copenhagen, Denmark, Dec 2021 – Jan 2022

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## CERTIFICATION AND CONFERENCE:

- RAC Product Design (IIT Madras)
- Principles of Hydraulic Machines and System Design (IIT Guwahati)
- Product Design and Development (IIT Roorkee)
- Inspection and Quality Control in Manufacturing (IIT Roorkee)
- Steam and Gas Power System (IIT Roorkee)
- Foundation of Computational Fluid Dynamics (IIT Madras)
- Paper presentation in TRPCS 2K19, Able to write and present the paper on the major project, Pune
- Design of Heat Exchanger for HVAC Applications, Vel-Tech R&D Institute of Science and Technology

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## SKILLS:

AutoCAD	Expert	MS-Office	Expert
Solid Works	Expert	Lab View	Proficient
ANSYS	Expert	Open Foam	Competent
MATLAB	Expert	Python	Competent