**Shubhankar Dhananjay Bhate**

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**Personal Profile**

I am curious, tenacious and driven individual with eager to work in a fast-paced environment. I am open to new problems outside my normal comfort zone. I am willing to engage in debate and discussion where it is necessary. I have empathy to words my co-workers and have willingness to listen and see others’ points of view. I am an experienced, positive, proactive attitude, self-reliant and self-motivated Mechanical Engineer. I savour and work at my best when challenged and can work under pressure with an appetite for success.

**Education & Qualifications**

2018 – 2019 **MSc Mechanical Engineering,** Coventry University (Distinction)

**Key skills Gained**

* Advance skills in the Catia V5 2D and 3D design with GD&T application experience using British standards.
* Enhance practical skills and knowledge in material selection using CES selector
* Advance practical skills in FEA analysis; static, model and harmonic analysis using hand calculations as well as by using Hypermesh/Ansys.
* Learned how to use Adams and n-code for testing the durability and reliability of the structure.

Key Modules - CAD, Stress and Dynamics, Project Management, Engineering Stimulation and Analysis, Metrology and Lightweight Advanced Materials, Control Engineering, Thermofluid Systems, Durability and Reliability-Vehicle Structures.

2012 – 2016 **BEng in Mechanical Engineering**,Pune University (first class)

**Key Skills Gained**

* Advance practical skills and knowledge of design and design calculations, use of design data book and software as Catia V5 and Solidworks.
* Developed skills in practical and theoretical calculations using FEA analysis of the structure
* Advance theoretical and practical knowledge of the thermodynamics.
* Advance skills in Microsoft office including, World, Excel, PowerPoint

Key Modules - Refrigeration and Air conditioning, CAD/CAM Automation, Dynamics of Machinery, Energy Audit Management, Operation Research, Powerplant Engineering, Mechanical System Design, Hydropower Engineering, Finite Element Analysis

**Work Experience**

1. **Design Engineer**

I have worked in Techno Therm Engineering from 20th September 2016 to 18th of November 2017 as Design Engineer. I was working on the CATIA V5R20 version. I was punctual and hard worker. I like to work without any supervision and complete my tasks in given time. While working there I have gained good knowledge in Design and Quality, improved my communication skills

Key Responsibilities: -

* Design 2D to 3D designs as per customers need in CATIA V5 by using part design and sheet metal design, verify them with the senior design engineer
* Provide created designs to manufactures.
* Creation of BOM
* Support testing and evaluation of manufactures part
* Assist and develop new ideas to the project
* Project and report writing

I was punctual for my duties and I have completed every task given to me.

1. **Senior Course Representative**

I have worked in Coventry University Student Union as a senior course representative from 1st November 2019 to 31st May 2019

Key responsibilities: -

* Gather and communicate views from students peers on various aspects of course
* Solve problems with the help of faculty

**Academic Projects:**

**MSc:**

‘Applied Structural Optimisation: topology optimisation using lattice structure.’

-In this project I have optimised design of a bracket with different lattice structures and perform the FEA analysis to validate the design. In this project I have re designed the cabin crew bracket using lattice optimisation. This project honed my Catia V5 and Ansys skills and thought me a new optimisation method, with flexible and adaptable approach. I am publishing this research paper.

**• B Eng.:**

‘Performance Analysis of different types of Solar Air Heater in Active and Passive Modes’.

-In this project we have given analytical report on active and passive mode (flow and temp change) of air in solar air heater with double pass. In this project I have designed the collector and cabinets. I also have to do assembly. With this I get a good knowledge of importance of tolerance and real-life design variation.

**Awards and Interests**

* **Creative: -** I know how to play guitar on stage result of that I have won first prise on a stage show in Nashik. With being member of a band, I can easily collaborate with my team members
* **Team Sprit** – I have played Football and Kabaddi team games. I am passionate about team sports. This has enabled me to create a bond and camaraderie both on and off the field with people from a diverse range of backgrounds. This team games developed my teamwork skills.
* **Language** – I can speak German beginner level and English fluently