

# Shaikh Abdul Muqtadir

## Mechanical Engineer

Tech enthusiastic with excellent problem solving skills and passionate about designing, improvising and learning new technologies.



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## EDUCATION

### B.tech in Mechanical Engineering

Symbiosis Institute of Technology, Pune

07/2019 - Present

Currently 7.4 GPA

### Diploma in Mechanical Engineering

MGM's Polytechnic, Aurangabad

06/2016 - 07/2019

73.40% in MSBTE

### 10th boards(Matriculation)

Ryan International School, Aurangabad

03/2015 - 03/2016

71.40% in ICSE

## TRAINING AND CERTIFICATIONS

### E-Race Car Powertrain Sizing And Simulation

Decibels Lab

07/2020 - 08/2020

Achievements/Tasks

- Learned and analyzed Motor transit and nominal torque demands.
- Learned and analyzed Motor rpm and operating points.
- Learned and analyzed battery capacity, battery current, Cell C-rating.

### Computational Fluid Dynamics - Tool For Understanding Fluid Flow Physics

Symbiosis Institute Of Technology

07/2021 - 07/2021

Achievements/Tasks

- Learned turbulent flow simulation.
- Learned simulation of compressible flow.
- Learned Simulation of flows involving nanoparticles - DPM modeling.

### Python for Mechanical Engineers

Decibel lab

07/2021 - Present

Achievements/Tasks

- Analyzed Aerodynamics and Thermal simulations.
- CAE and CFD simulations.
- Learned Production test system.

### Modeling and Design for Mechanical Engineers with Autodesk 360

Coursera

06/2020 - 07/2020

Credential ID - 6DKDCDA4C6AB7

## SKILLS

Ansys

Autocad

Creo

Scilab

Matlab

Matlab

Solidworks

Python

SQL

## PERSONAL PROJECTS

### 1) Design and Development of Hybrid Bike

(12/2015 - 03/2016)

- A Hybrid electric vehicle that relies not only on batteries but also on an internal combustion engine, which drives a generator to provide the electricity and may also drive a wheel. Hybrid electric vehicles combine electric motor, battery, and power systems with an internal combustion engine to achieve better fuel economy and reduce toxic emissions.

### 2) E-race Car Powertrain Sizing and Simulation In Scilab Xcos

(12/2020 - 02/2021)

- Building a formula race car is totally different from a road car. Things such as cells, their chemistry, their characteristics, ability to get high current regen, thermal stability, degradation, motor peak points, efficiency, energy consumption for endurance, selection to suit pro and rookie driver driving patterns and many more.

### 3) Analyzing Formula Race car in Ansys

(04/2021 - Present)

- Analyzing heat flow and aerodynamic resolutions in formula race car

### 4) Improving Li-ion Battery Performance with Internal Thermal Management System

(03/2021 - Present)

- In Ansys CFD fluent MSMD modeling, we initialized and executed the simulation. In this study, we discovered that water dissipates heat, lowering the temperature internally of the cell to the correct operating condition thereby increasing the lifespan of the cell

## ORGANIZATIONS

Mechanical Engineering Student Association(MESA)SIT,Pune (12/2020 - 08/2021)

Member

Techfest(Technical Event) SIT,Pune (01/2020 - 02/2020)

Volunteer

## PUBLICATIONS

Shaikh Abdul Muqtadir, Shaikh Ameer Hamzah, Quazi Muneeb Ilyas, Nandkishor D.Bankar et. al. " Design and Development of Hybrid Bike." International Journal of Modern Engineering Research (IJMER), vol. 11(01), 2021, pp 16-23. (01/2021 - 03/2021)

Shaikh Abdul Muqtadir "E-race car Powertrain Sizing and Simulation in Scilab Xcos." International Research Journal of Modernization in Engineering Technology and Science(IRJMETS), vol.3(02), 2021, pp 1148-1158. (09/2020 - 02/2021)

## INTERESTS

Design

Numerical Solving

Graphical Simulation