Kedar Sameer Wadhavkar

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Branch   : Mechanical Engineering
CGPA   : 8.63

OBJECTIVE

Looking for an internship opportunity to elevate my proficiency in design and gain experience in this field.

SUMMARY

- **SUPRA:** Worked for 2 years as a part of Team Abhedya Racers of SUPRA (Student Formula Racing Competition) organized by SAEINDIA, in the Power Train, Analysis, Procurement and Sponsorship Departments. It is a competition of designing, fabricating and racing a formula car, with colleges participating from all over India.
- Good hands-on in stress analysis using CAE softwares like **ANSYS workbench** and **Hypermesh 13.0**.
- Well versed with complex design modelling in **CATIA V5** for commercial applications.
- **Foreign Languages:** Japanese, German

EDUCATIONAL QUALIFICATIONS

Sr. No.	Grade	Name of Institute	Board / University	Score	Year of Passing
1.	**TE**	Marathwada Mitramandal's College of Engineering, Pune	Savitribai Phule Pune University	**8.74 SGPA**	2020
2.	**SE**	Marathwada Mitramandal's College of Engineering, Pune	Savitribai Phule Pune University	**8.06 SGPA**	2019
3.	**FE**	Marathwada Mitramandal's College of Engineering, Pune	Savitribai Phule Pune University	**9.08 SGPA**	2018
4.	**XII**	Dr. Kalmadi Shamarao Junior College, Pune	HSC, Maharashtra	**85.54 %**	2017
5.	**X**	New India School, Pune	SSC, Maharashtra	**89.40 %**	2015

ACHIEVEMENTS

- **Winner** in the CAD War event of Dexterity 2020 amongst many colleges.
- My team, Team Abhedya Racers achieved **2nd Rank in Acceleration event** and AIR **14** amongst 150+ participating colleges.
- Been the **highest scorer** in Engineering Graphics – credit course at overall college level.
- Received merit **Scholarship** from Government in both **HSC** and **SSC** boards.

PROJECTS

- **Robotic Delivery System**
  - Design and development of a cost-effective system typically designed for the restaurants for automating the order-taking and delivery of food using a web page and robotic delivery model.
  - It uses Bluetooth module, gyroscopic sensor and motor drivers interfaced with Arduino controller to execute the major tasks.
  - Depreciates unnecessary overhead delay and errors caused in manual food ordering and delivery tasks, also saving the expenditure on the attendants, waiters and mishaps if any due to them.

- **SUPRA, SAE India (Team Abhedya Racers)**
  - Lead as a CAE analyst and CAD modelling specialist for 2 years.
  - Developed numerous powertrain and drivetrain components following the GA Layout and its steps in detail – Material selection, calculations, design, fabrication drawing, FEA, costing and BOM.
  - Secured AIR 2nd Rank in Acceleration event and AIR 14 in the 2019 event.

IN PRESS

- **"Design and Development of a Drivetrain System for a Student Formula Vehicle"**
  - Paper based on the complete design of the drivetrain system/ assembly for a Formula car using a bike's engine (KTM 390cc).
  - The assembly comprises of various gears, joint, chain, casings which are keenly studied, analysed and researched on.
  - With full-proof validating calculations and FEA, design of the manufactured and tested components are presented in detail.

EXTRA-CURRICULAR COURSES

Sr. No.	Classification	Name of Courses / Trainings	Version / Level	Certification Organization
1.	Computer-Aided Engineering softwares	Hypermesh	13.0	Altair from Eleation
2.		ANSYS	2019 R3	Ansys from Eleation
3.	Computer-Aided Design softwares	CATIA	V5 R21	Dassault Systems from DesignTech
4.		SolidWorks	2014 x 64	Mechatol Engineering
5.	Engineering training	Geometric Dimensioning & Tolerancing	-	Mechatol Engineering
6.	Computer science related trainings	Python	2019.3.1	TATA Technologies
7.		Machine learning	-	Coursera – (Stanford University)
8.		Web Development Specialization	-	Coursera – (University of Michigan)
9.	Foreign languages	Japanese	N5	JLPT N5
10.		German	Upto A2	A2 level - Goethe Institute

CO-CURRICULAR ACTIVITIES

- Active member of the **Aelerios Aeroclub**.
- Workshop based on **Vehicle interior designing** and modelled plastic components of a door panel of an automobile.
- Class Representative for 2 years in the MESA (Mechanical Engineers' Student Association) with a **Letter of Appreciation** for my work in various activities and events.

ADDTIONAL SKILLSETS

CAD Software (CATIA)
- GSD, wireframe
- Plastic modelling
- Part, Assembly design

Responsive Web Development
- Html
- CSS
- JavaScript

Additional Softwares
- Optimum Lap – Optimum G
- MATLAB, Octave
- Ricardo - Wave Simulation

CAE Software (ANSYS)
- Static Structural, Transient
- CFD
- Modal analysis

Other Programming Languages
- Basics of C
- Basics of C++

PERSONAL DETAILS

- **Hobbies:** Art & Craft, Cooking, Sketching, Singing
- **Strengths:** Adaptable, resilient, ardent
- **Weaknesses:** Hyperactive, talkative, argumentative
- **Date of Birth:** 6th May, 1999
- **Permanent Address:** 5, Niranjan Prestige, Sr. No. 112, Renuka Nagar Lane - 2, Warje, Pune – 411058

DATE: 30th June, 2020