SAURABH SANTOSHLAL DUGAD

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Portfolio Link: https://drive.google.com/drive/folders/1GaVKns75lmNHKPgKDVw0d2k pWgJiDp-

?usp=sharing
Mobile No.: +91-7798377379

EDUCATION

B.E. (Mechanical Engineering)

Pursuing

(Probable completion by Aug 2020) Savitribai Phule Pune University, Pune GPA- 6.0/10 (till 7th Semester)

Diploma (Mechanical Engineering)

2011 - 2016

Maharashtra State Board of Technical Education, Mumbai

Percentage- 64.41%

Secondary School Certificate

2010-2011

Maharashtra State Board Percentage- 78.00%

EXPERIENCE

SAE NIS EFFI-CYCLE 2018 Competition

Ian 2018-Nov 2018

Designation- Team Leader **Team Strength-** 13 Students **Team Name:** The Avengers **Guidance-** Prof. P.D.Bagmar **Project-**"Design and fabrication 3-Wheeler Hybrid Power Vehicle"

(*Herewith pictures of designed and fabricated vehicle are attached)

- The project concept was three-wheeler configured and hybrid-powered (by human-electric source) and capable of seating two passengers side by side catering to the day to day mobility needs.
- The vehicle was aerodynamically designed and fabricated within given tolerances, also focused on performance, safety, and ergonomics as per given guidelines by SAE organization.
- Stages qualified-
 - 1) Technical Inspection (T.I.)
 - 2) Static Round (Vehicle build quality evaluation, Design, and CAD/CAE report evaluation, Material testing report evaluation, Technology advancement, Cost evaluation, Business presentation)
 - 3) Dynamic Round (Acceleration test, Braking test, Grad-ability test, Figure test, Electric motor speed test)
 - 4) Endurance Run (This was the final stage (i.e. race). Here single lap is around 1.5km and you have 1.5 hr is to complete the max. No. of a lap to win the race, our vehicle has completed 14 laps with one vehicle breakdown and the winning team has completed 22 laps.)

Skill Enhance- Relevant subject knowledge, Design calculations, Computer Aided Drafting and Engineering, Physical prototype fabrication, Bill of Material sheet.

ACADEMIC PROJECTS

Project: "Parallel Parking using Fifth Wheel with Pneumatic Valve"June 2019 – July 2020

Guide: Prof. R.R.Kankriya

Brief:

• The main motive behind the execution of this project to reduce hecticness, inconvenience, effort, and time of drivers while parking vehicles in narrow space.

- The number of vehicles increasing owing to an increase in population compared to paring space thus many times drivers may face difficulties in parking as narrow space available for parking.
- The prototype designed and drafted using CAD software in which the fifth wheel is attached to the rear of the vehicle.
- The small prototype of the vehicle constructed accordingly. The vehicle includes a drive system, propeller shaft, pneumatic cylinder, solenoid-operated directional control valve, a fifth wheel with a chassis frame, and auxiliary wheels.
- The entire system is operated by a motor and is controlled by a pneumatic clutch and drive system.
- This prototype successfully demonstrated that with this fifth wheel vehicle concept drivers can park vehicles easily in narrow parking space.

Skill Enhance - Design & drafting, Fabrication, Automotive technology, Selection and procurement of automotive parts, Documentation, Report making & Power Point Presentation.

Project: "Refrigeration and fabrication of water cooler"

June 2015 – June 2016

Guide: Prof. V.G.Patil

Brief:

- This project worked on the conduction heat transfer method.
- In this project, two copper tubes are winded in a spiral and parallel way and are joined with spot welding to better thermal contact between each other.
- By this technique, thermal conduction between these two tubes will be high and it follows the counter-flow method for better cooling effect.
- In the project, R600a (isobutene) gas used as a refrigerant due to its easy availability, environment-friendly nature.
- In this project of water coolers concluded that the cooling of water in a heat exchanger or evaporator depends on-
 - The flow rate of water entering the heat exchanger
 - Superheating, Total component capacity, efficiency, and effectiveness
- With this fabricated prototype successfully demonstrated that waste heat of compressor can use for water cooling.

Skill Enhance - Heat transfer phenomenon, HVAC, Economic considerations, Waste heat utilization, Fabrication, Report making & Power Point Presentation.

CERTIFICATE COURSE

•	Six-Sigma (Green Belt)	July 2020
•	Introduction to Industrial Design Foundations	June 2020
•	Introduction to Geometric Dimensions and Tolerancing (GD&T)	May 2020

SOFTWARE ACQUAINTED WITH

•	CATIA V5	•	Fusion 360 (In-Process)
•	AutoCAD	•	MS-OFFICE

Programming Language Known

Python (In-Process)Basics Of C & C++

INTERNSHIP AND TRAINING

Software Engineering Virtual internship at JPMorgan Chase & Co.
 June 2020

 Induction training on Industrial Automation at Technocrat's Academy of Automation & Control Technology (TAACT), Nashik, (MH)
 January 2016

Induction training at SRTC workshop, Chalisgaon, (MH)
 Augest 2015

ACHIEVEMENTS AND EXTRA CURRICULAR

Competition

• Secured 18th Rank in INDIA, 3rd rank in Maharashtra National level SAE NIS EFFI-CYCLE competition 2018.

Technical Event

- Event co-ordinator for MOMENTUM-2018 and MECHSTORM-2020- National level technical event organized by MESA SNJB's KBJCOE, Chandwad.
- Active participation in Poster presentation, Robo-race, Hydro-launcher, Treasure-hunt events

Sports

 Bronze Medal Winner in 7th Maharashtra State Karate Championship, Central Railways, Bhusawal Division.

SKILLS AND STRENGHTS

- Quick learning ability which helps me in a quick understanding of new things and speed-up my work.
- Demonstrated ability to work under pressure to meet deadlines.
- Good Inter-personal & Communication Skill.
- Management Skill (Time, People & Cost).
- Analytical and Problem Solving Skills.
- Flexibility and Adaptability.
- Leadership & Good team player.

DECLERATION

I hereby declare the above-mentioned information is true & I bear the responsibility for the correction of the above mentioned.

SAURABH SANTOSHLAL DUGAD

Pictures- SAE NIS EFFI-CYCLE 2018 Competition- Design and fabrication of 3-Wheeler Hybrid Power Vehicle

For more details about project checkout my portfolio:

https://drive.google.com/drive/folders/1PNrOV - sPE6f9YQJiyPYee-8zUcZPyA?usp=sharing







CAD DESIGNS

ACTUAL PHOTO

Practice Modules using CAD software

















