UTKARSHA MUKUND CHAUDHARI

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OBJECTIVE

To gain state-of-the-art knowledge about autonomous technologies for securing a respectable position in the industry and contributing to this exciting field.

EDUCATION

Master's in automotive engineering — Aug 2019 – Aug 2021
Clemson University – International Center for Automotive Research

Courses taken in Fall 2019

- High-performance computing
- Automotive electronics
- Automotive systems overview
- Automotive business concepts

Undergraduate in mechanical engineering — Aug 2013 – Aug 2017
Savitribai Phule Pune University

PROFESSIONAL WORK EXPERIENCE

RLE International GmbH – Sales Executive — Nov 2017 – Nov 2018

- Intensive Market research and study about current automotive technologies and Competitor Analysis
- Strategic meetings with prospects to understand their requirement
- Co-ordination with German counterparts for creating quotes and PoCs
- Direct communication with the Managing Director of RLE India Pvt. Ltd. for strategic planning
- Coordination with the Engineering Team to create PoCs

INTERNSHIP EXPERIENCE

Mercedes Benz Research and Development India – Student Trainee — Jun 2016 – Sept 2016

- Created a database by studying different safety Regulations (FMVSS, ECE, and CMVSS) required for designing the interior soft and hard trims of passenger car

ENGINEERING PROJECT EXPERIENCE

- **Major Project:** Designing an autonomous car to implement adaptive cruise control and autonomous lane keeping — Oct 2019 - Present

Aim: To design an autonomous car using Arduino coding and ultrasonic sensors to implement adaptive cruise control and autonomous lane keeping

- **Major Project:** Design and Manufacturing of a Differential for an Off-road vehicle — Sept 2016 – Jul 2017

Aim: To design and manufacture a differential to suit the requirements of a rough terrain by providing optimum traction and power distribution

- **Minor Project**: Design of a Spool profile for power transmission of an Off-road vehicle — Sept 2015 – Jan 2016

Aim: To design and manufacture a spool profile according to the available shaft fitting and to provide maximum power transmission

PUBLICATIONS

- **Paper Title:** Design and Development of Open Differential for Transmission System of Quad Bike

Paper Type: Analytical Paper
Journal: International Research Journal of Engineering and Technology (IRJET)
Publication: Volume 5, Issue 12, S.NO:80

- **Paper Title:** Study of Lean Burn Engine Under the Influence of Hydrogen and Methanol Addition

Paper Type: Review Paper
Journal: Future Trends and Challenges in Mechanical Engineering
Publication: ISBN: 978-81-932761-50, S.NO:31

CODING LANGUAGES

- C++ (Intermediate)
- Python (Beginner)

COMPUTER SKILLS

- Engineering Design Software: Pro-E, Creo Parametric, Siemens NX
- Rendering Software: Keyshot 5.0
- MATLAB (Intermediate)
- Simulink (Beginner)
- Microsoft Office (Expert)

EXTRACURRICULAR ACTIVITIES AND ACCOMPLISHMENTS

- “Gender Champion – Female” awarded by Savitribai Phule Pune University
- Powertrain Head of Team Arihant, a collegiate off-road racing team
- Girl’s Secretary of Mechanical Engineering Students Association
- Received the “Best Female Participant QUAD TORC 2017” organized by ISNEE
- Judged the “Go-Kart Design Championship 2018” organized by ISNEE were more than 105 teams participated

CO-CURRICULAR ACTIVITIES

- Won 4 consecutive National Championships for designing and manufacturing an off-road Vehicle with a team of 25 members
- Won the intra-college project-based completion for a mini project “Vertical Axis Wind Turbine”
- Won the intra-college project competition for a mini project “GPS system”
- Won the intra-department technical paper presentation competition for “Design of a

Limited Slip Differential”
- Participated in a 2-day workshop for designing an autonomous car