



ROHIT GARUD

Project Consultant

Self-motivated individual with a passion for lifelong learning and a proven record of completing tasks with quality in a timely manner

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📍 Pune

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WORK EXPERIENCE

Project Consultant Self-Employed

08/2020 - Present

Pune

Achievements/Tasks

- Consulted for 35+ projects from different domains
- End-to-end projects from domains including computer vision, machine learning, autonomous vehicles, electric vehicles, optimization, dynamics, composites, FEA

Project Assistant-3 (SRF) CSIR-National Aerospace Laboratory

06/2019 - 06/2020

Bangalore

Achievements/Tasks

- FEA simulation of indigenous light transport aircraft component
- FEA simulation of Mode-I, Mode-II and Mixed-Mode fracture toughness with ABAQUS and plug-in development with Python
- Automation of manual modeling technique with TCL scripting

Project Intern Valdel Advanced Technologies Pvt.Ltd.

10/2018 - 12/2018

Bangalore

Achievements/Tasks

- Assistance in composite material specimen preparation and testing using Universal Testing Machine
- ABAQUS plug-in development for folded core sandwich structure using Muira-Ori folding pattern

EDUCATION

M.E. in Design Engineering Maharashtra Institute of Technology, Pune

09/2016 - 09/2018

CGPA: 8.75

Courses

- Thesis: Effect of Nanofillers on Fatigue Performance of Fiber Reinforced Composites
- Project: Stacking Sequence Optimization of Composite Material Beams

B.E. in Mechanical Engineering JSPM's JSCOE, Hadapsar, Pune

06/2010 - 06/2014

Grade: 64.5%

Courses

- Thesis: Design of Subsonic Wind-Tunnel and Force Measurement with Flow Visualization Over Aerodynamic Bodies
- Member of college team for national level SAE BAJA ATV competition (2012-2013)

SKILLS

Python

MATLAB

SQL

Data Analytics

PyTorch

Django

Flask

HTML/CSS

Technical Writing

PROJECTS

SI engine sensor fault detection and isolation using machine learning (MATLAB) (10/2022 - 01/2023)

Facial keypoint detection and emotion recognition of the driver using machine learning (MATLAB) (06/2022 - 09/2022)

Driver drowsiness and distraction detection using machine learning (PYTHON) (02/2022 - 05/2022)

Emotion recognition with machine learning using physiological information of driver (MATLAB) (02/2022 - 05/2022)

Autonomous vehicle localization and mapping using camera images (MATLAB) (10/2021 - 01/2022)

Autonomous vehicle perception sensor simulation using Unity game engine (06/2021 - 08/2021)

State of health (SOH) estimation of Lithium-ion battery for EV using machine learning (MATLAB) (06/2021 - 08/2021)

Co-simulation of autonomous race car using SIMULINK-Unreal Engine 4 with multiple sensors (MATLAB) (10/2020 - 01/2021)

Simulation of Electric Vehicle (EV) powertrain with PI control using MATLAB/SIMULINK (10/2020 - 01/2021)

ACHIEVEMENTS

GATE Qualification (03/2018 - 03/2021)

Marks: 43.76 (446)

GATE Qualification (03/2015 - 03/2018)

Marks: 50.35 (539)

AREAS OF INTERESTS

Machine Learning

Optimization

Automation