SHAKEER SHAIK

Address: Rome, Italy (Home)

EDUCATION AND TRAINING

CURRENT ROME, Italy
M.SC MECHANICAL ENGINEERING DESIGN SAPIENZA UNIVERSITY OF ROME

Thesis Enhancing Solar Panel Efficiency in Agrivoltaic Systems: Mitigating Shading Losses Through Advanced Design and Optimization Techniques

06/2012 – 04/2016 India
B.E MECHANICAL ENGINEERING Anna University

Thesis Hydro Kinetic Energy Harnessing Using Piezo Electric Material

WORK EXPERIENCE

07/2023 – CURRENT Italy
MECHANICAL ENGINEER FREELANCE

- Using Technical data Performing Detailed inspections like Dimension checks, NDT testing and Performance testing and Hydrostatic testing.
- Based on the client requirements generating Inspection reports, Quality standards and other technical data reports.

09/2022 – 06/2023 Hyderabad, India
MECHANICAL ENGINEER RIPPLE PVT LTD

- Managed project execution, including calibrations, installations, and resource optimization,
- Conducted inspections, tests, and audits to ensure industry compliance, enhancing quality assurance compliance

01/11/2021 – 31/05/2022 Brussels, Belgium
EU PROJECT ENGINEER EUABOUT

- Analyzed and developed European projects to support stakeholders in securing EU funding, focusing on sustainability initiatives and the European Green Deal.
- Conducted technical analysis in areas such as air pollution, solar panels, and CNG engines, contributing to high-impact EU initiatives like Horizon 2020 and Green Economy.
- Designed and evaluated engineering solutions, including detailed CNG engine module analysis using AutoCAD, ensuring compliance with client specifications and technical standards.

LANGUAGE SKILLS

Mother tongue(s): **TELUGU** | **URDU**
Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
ITALIAN	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Analysis Tools

Autocad and Solidworks | CATIA v5 | Altair hypermesh | Matlab/Simulik

Design and Analysis

Advanced Methods in Mechanical Design | Concept Design and Analysis | FEA Analysis | Topological Optimization | Additive Manufacturing and Production Systems | 3D printing | Rapid-Prototyping

Quality Management

Quality Inspections | Inspection Reporting | FMEA | Lean Concepts | NDT testing

PROJECTS

Design and Analysis of Airport Conveyor Belt system,

- Designed and analyzed an airport conveyor belt system, including bearings, rollers, and mechanical components, using CATIA and Solid Edge.
- Conducted functional tree analysis, developed actuator matrices, and performed stress, strain, torsional, and displacement analyses using Altair HyperMesh to optimize design performance.
- Executed meshing, material definition, load simulations, and topology optimization, while conducting comparative analyses to refine system designs and improve durability.

Dimensional Analysis of CNG engine,

- Performed detailed dimensional analysis of the CNG engine used in the carrier cooling system using AutoCAD design documents to provided detailed insights and technical requirements for clients project.

Design Analysis of solar powered boats,

- Performed detailed design Analysis of all the components to verify the dimensions of the components and provided with a detailed compliance report for European union project Proposal

HONOURS AND AWARDS

03/2021
Common European Framework of Reference for Languages (CEFR) - C1 level English – Council of the European Union

Link https://www.slideshare.net/slideshow/ols-english-language-testing-result-pdf/274516544

06/2020
SIMULINK ONRAMP – Mathworks

Link https://www.slideshare.net/slideshow/simulink-certificate-onramp-certificate-pdf/274516289

12/2019
MATLAB ONRAMP – Mathworks

Link https://www.slideshare.net/slideshow/matlab-certificate-onramp-certificate-pdf/274516288

07/2016
Plant Design and Management systems(PDMS) – CADD Centre Training Services Pvt Ltd.

Link https://www.slideshare.net/slideshow/plant-design-and-management-systems-pdms-caddcentre_certificate-pdf/274516647