

Shushant



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PROFILE

- Passionate about learning mechanical engineering applications. Actively seeking opportunities to acquire new skills, contribute to group success, and possess strong administrative abilities.
- Proficient in teamwork, building rapport, and inspiring trust to achieve organizational goals; adept at cross-departmental collaboration with co-management, team leaders, and superiors.

SKILLS

Designing and Research Assistance Tools

Solid works, Ansys(Fluent), Microsoft Office, Minitab, High Score Plus.

Soft Skill

Proficient in research methodology and academic writing, Team player, Communication skills, Time management, Project management

Technical Skills-

Welding processes- GTAW, GMAW, FCAW, Oxy-acetylene Welding,
Machining processes- lathe, shaper.

Quality Management

Six Sigma, Quality Control (QC)
Quality Assurance (QA)
Root Cause Analysis (RCA)
P-PAP and DMAIC Technique

EDUCATION

Master in Engineering: Mechanical engineering, Chandigarh university

August 2022- August 2024 | Mohali, PB, India

CGPA: 8.3

- Research on the joining of **magnesium alloy and API 5L X80** materials was done using different **laser welding processes**.
- I have studied various advanced engineering topics such as **CFD, FEA, Design of Experiments, Nano Technology**, etc.

Bachelor of Technology: Mechanical Engineering, Chandigarh Engineering College

July 2016 – April 2020 | Mohali, PB, India

CGPA: 7.3

Certification for Vocational Training (ITI- welding), Govt. Industrial Training Institute

June 2015 – May 2016 | Baijnath, HP, India

Percentage: 72.8%

- Studies and practice various types of Welding processes

PUBLICATIONS

Review Laser Welding of Magnesium Alloys

(Springer Nature).

Microstructure and mechanical properties of Fiber Laser Beam Welded dissimilar joint of Mg alloys

(Springer Nature).

Effect on the Mechanical and Microstructure properties while joining two dissimilar Mg Alloys using Fiber Laser Beam Welding

(Journal of Materials Engineering and Performance).

Study to investigate the effect of welded joints on the mechanical properties of AZ91 Mg alloy by Fiber laser beam welding

PROJECTS

Evaluation of Mechanical Properties of Welded Magnesium Alloys and simulated welded Joint.

July 2023 – June 2024

- Conduct experimental and finite element analyses to evaluate the mechanical properties of different magnesium alloys.
- Experimental Data Used to Validate Numerical Data.
- Experiments and finite element simulations to characterize the material behavior under various loading conditions.
- Contribute to data analysis, interpretation, and research paper writing.

Heat Transfer Analyses of Helical coil heat Exchanger by validating experimental results with numerical study.

December 2022 – April 2023

- Analysis of helical coil heat exchanger by using Ansys fluent and validating the experimental results with numerical study.
- The heat exchanger is used in preheating the fluid by solar thermal energy used in food processing units.
- Design helical coil heat exchanger by using Ansys and fabricate for experimental study.

AWARDS

Go-Karting

- **2nd Runner up** in go-karting championship organized by Hindustan Moter sports in Bhopal.
- **Best Innovation Award** for innovation in go-karting for driver safety.

Weldability event

- 2nd Price in weldability (welding event) in Thrust 2018.

Boxing competition

- **Silver Medal** in the state-level Boxing.

COURSES

Solid Works, Udemey

June 2024 – July 2024

- Covered the Motion Study & SolidWorks Simulation.
- Included **Sheet Metal Design** in SolidWorks, Which also covers the design of custom forming tools.

Dielectric Absorption ratio based insulation monitoring system, All India Hackathon (Got 4th rank)

January 2019 – March 2019

- The objective of this project is to solve the problem related to charge leakage from insulation in marine electrical system with the help of master wire.

Go-Kart

February 2018 – May 2018

- The main objective of this project was to build a Go-Kart and applied theory knowledge in practical work. we modified and retuned the four stroke engine to increase the output power.
- Engine tuning.

PROFESSIONAL EXPERIENCE

Maruti Pasco Automobiles, Automotive Service Advisor

January 2021 – August 2021 | Gurugram, India

- Explained complex mechanical information clearly to customers for a good understanding of required repairs. Kept daily administration up-to-date for reliable reference of servicing works performed.
- Worked on DMS (data management systems).
- Delivered efficient workshop scheduling to meet customer expectations and achieve loading targets.
- Assessed required repairs and advised customers of cost and timescale for work completion and also guide to claim the insurance from insurance company.

LANGUAGES

Hindi

English