

ARBAJ SHAIKH

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Education

Dr.D.Y.Patil Institute of Engineering Management and Research Akurdi, Pune	2023 - 2026
B.E. in Mechanical Engineering - CGPA: 9/10 (*Pursuing)	
Government Polytechnic Solapur	2020 - 2023
Diploma in Mechanical Engineering – 80.10%	
Zilla Parishad High School, Arali BK	2019 - 2020
Secondary School Certificate (10th) – 90.40%	

Internship/ Training

Tata Power Skill Development Institute (TPSDI)- Shahad, Mumbai	(30 Oct – 6 Nov) 2025
Solar panel Installation / Technicians / Engineers	
○ Successfully completed a 7-day Solar Installation Training at TPSDI Shahad- Mumbai,	
○ Gained hands-on experience in solar system design, installation, and maintenance.	
Maruti Engineers, Pune	Dec 2024- Feb 2025
Design Engineer & QMS Implementation Intern (*Paid)	
○ Designed 2D & 3D models in CATIA, contributing to Product Development.	
○ Trained in ISO 9001:2015 QMS implementation (₹70,000 Consultant Training Program).	
Tata Motors (Sterling), Solapur	Jul 2022- Aug 2022
Industrial Training Intern	
○ Assisted in servicing and maintenance of passenger and commercial vehicles.	
○ Gained hands-on knowledge of automotive parts, and vehicle systems.	

Projects

- Experimental analysis of 3D printed polymer matrix composite using FDM for optimizing Tensile and Impact Strength. (Ongoing Project)**
- This project focused on improving Tensile & Impact strength of Polymer Matrix Composite.
 - By varying key 3D printing parameters such as layer height, infill Density, Infill Parameter etc.
- Anti Sleep Alarm for Drivers.**
- Integrated a smart alarm for Drivers to enhance driver safety.
 - Developed & Tested a Software-Hardware based system to detect Driver eye movement.
- Design and Analysis of a small Hydroelectric Power Plant.**
- Built a working Model to demonstrate electricity generation by converting water flow into Mechanical and then electrical energy.

Skills

Design Softwares: CATIA, Solidworks.
Simulation Software: Ansys Mechanical (APDL & Workbench)
Data & Analytics: Microsoft Power BI, Microsoft Office.
Quality & Standards: ISO Standards, Internal/External Audits, APQP, CFT, 5S, Kaizen .
Soft Skills: Teamwork, Problem solving, Management, Record Keeping.
Others: GD&T, 3D Printing

Certificates

- Geometric Dimensioning & Tolerancing (Mechathol Product Engineering Solutions Pvt. Ltd.)
- Master Solidworks 2022- LearnVern Pvt. Ltd. (Skill India, NSDC)
- Programmable Logic Controller & Automation (PMS Robotics Research Centre)
- Ansys mechanical (Ansys)
- Microsoft Power BI for Beginners (Simplilearn)
- Digital Productivity (NIIT Foundation)

Achievements

- Achieved 2nd Rank in Diploma Final year Examination (2023).
- First runner up- Inter college Chess competition.

Extracurricular Activities

- Generative design of sports equipment using Fusion360. (Smart India Hackathon 2025)