



Shivakshi Sheel Srivastava

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Profile

Mechanical engineer with cross-functional experience in R&D, Design, Simulations, manufacturing, and product strategy. Proven ability to lead global initiatives, integrate AI and data systems, and deliver operational improvements. Driven by curiosity and systematic thinking, with a passion for building scalable, tech-enabled solutions that drive long-term value.

Education

National Institute of Technology Surat Surat, India
B.Tech. Mechanical Engineering May 2023

- CGPA: 9.08/10 (*GPA: 3.7/4.0*)
- **Courses:** Jet Propulsion, Heat Exchanger Design, ML, Personnel Mgmt, Adv. Engg. Materials

St. Kabir School Ahmedabad, India
Senior Secondary (CBSE) May 2018

- Scored 90% — Arts Club — Olympiad silver medilist

Skills

- **Core:** NPI, Manufacturing Ops, R&D, Facility Planning, Project Mgmt
- **Tools:** SolidWorks, SAP, Ansys Fluent, xflr5, MATLAB, OpenFOAM, AutoCAD, Excel
- **Coding:** Python, C++, Embedded C, HTML/CSS/JS, ml5.js, Qiskit, Julia

Certifications

- IELTS Academic – 8 Band (2024)
- IBM Qiskit Summer School: Certificate of Quantum Excellence (2021)
- Diploma in Sustainable Development – Lund University (2016)

Awards & Achievements

- **Grand Finalist**, Smart India Hackathon 2022 – Ministry of Rural Development, Govt. of India
- **9th Rank**, SAE Aero Design Challenge East – led RC aircraft design
- **Winner**, Hack the Mountains – Best Hardware Hack
- **Runner-up**, ISRO Lunathon – Autonomous Rover project
- **Patent:** Fixed-wing UAV design (2021)

Leadership & Impact

- **Innovation:** Run an automobile technology blog.
- **Captain**, SAE Team Phoenix: Led 60+ members to 9th rank in India; managed technicals, finance, PR, sponsors, and manufacturing.
- **Executive, ACM:** Revamped tech workshops; mentored 100+ students; organised hackathons & Mentored some.
- **Event Lead:** Hosted MG Motors collab; led 110+ participant workshop; judged 15+ teams at national competition.
- **Citizen Scientist:** NASA-PanSTARRS data research with Hardin-Simmons University; Co-founder of Aerospace blog (now discontd.).

Professional Experience

Yazaki India Pvt. Ltd. Pune, India
Assistant Manager – Technical Assistant to R&D India Head
Mar 2025 – Present

- Act as strategic and technical partner to R&D leadership, supporting planning, governance, and stakeholder alignment across 5 global engineering teams.
- Lead AI integration efforts within R&D, working with cross-functional teams to deploy digital solutions for product development.
- Develop and present KPI dashboards and executive briefs to inform decisions at board and leadership levels.
- Drive innovation initiatives and engagement forums to build a culture of continuous improvement.
- Facilitate risk reviews and participate in high-level customer and supplier strategy discussions.

JCB India Ltd. Jaipur, India
Assistant Manager – Manufacturing Engineering & Projects
Jul 2023 – Feb 2025

- Delivered 3 NPI launches across 32+ international markets, managing DVP builds, BOMs, layouts, and supplier readiness.
- Reduced CAPEX spend by 64% through strategic planning and vendor optimization.
- Digitized 170+ SOPs and created real-time dashboards to drive transparency and traceability.
- Built algorithm to validate CTQ part fitment across 70+ models and 8000+ components, improving quality control.
- Conducted 5+ technical trainings and 12+ programming sessions to upskill cross-functional teams.

Selected Projects

Mechanical Research Internship

- **IIT Kharagpur – Research Intern (Remote):** Simulated heat exchanger performance via Ansys/Matlab; collaborated with Voltas on energy-efficient HVAC.

Mechanical Design Internship

- **Jaivel Aerospace – Design Intern:** Supported in GD&T-based fixtures in SolidWorks MBD. Created standardised process documents for the design functions.

Pyrolysis of Agricultural Waste: A study on circular bio-economy

- Extracted biofuel via pyrolysis from bamboo, bagasse, rice husk; proposed applications for circular bioeconomy.

Spacecraft Re-entry Simulation – MATLAB, Ansys

- Authored review paper under Dr. J. Banerjee to optimize re-entry vehicle drag & fuel use for reusable launch systems.

Other Projects:

- Text Tone Detector • Open Colab • Covid Care