



Bishan Debnath

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Summary

Impact-driven professional with cross-sector experience in **automotive** quality assurance and **renewable energy**. Skilled in strategizing and implementing **digital transformation** to modernize legacy operations, and in delivering commercial and industrial **solar energy** solutions. Proficient in leading cross-functional teams and fostering multi-stakeholder collaboration.

Professional Experience

Assistant Manager – Digitalization | Maruti Suzuki India Ltd. | Gurugram, HR

- **Led 16+ digitalization initiatives** integrating emerging tech with domain operations, boosting process efficiency and reducing costs across Quality Assurance divisions. **Reduced project deployment time by 20%** following agile methodologies.
- Enabled **250 man-hour savings/month**, leading to faster defect resolution by **deploying a supplier quality analysis platform**, integrating 20+ datasets and 18 KPIs. **Led pilot on lifecycle analysis**, delivering a carbon accounting platform to identify emission hotspots across MSIL plants and value chain stakeholders.
- **Saved 550 man-hours annually** and reduced reliance on external teams by developing a transformation pipeline to **democratize big data analysis** by summarizing millions of rows into actionable spreadsheets.
- **Derived 2 new KPIs** to monitor and enhance the **adoption and utilization of deployed digital projects**. Automated the KPI reporting process, removing dependency on 6 resources for KPI reporting.
- **Facilitated digital upskilling** by organizing emerging tech webinars and analytics hackathons - engaging 100+ participants across 5+ annual events. **Formulated 20+ GenAI use-cases** across QA by leading design thinking sessions.

Lead Engineer – Solar Rooftops | Tata Power Solar Systems Ltd. | NOIDA, UP

- Engineering lead for key accounts (NIFTY 50, multinational OEMs, govt, and non-profit clients); supported BD teams, evaluated new business prospects, and strengthened business relations. **Delivered ₹150 Cr revenue** by **winning competitive bids of 40+ MWp** worth Commercial and Industrial (C&I) solar projects.
- **Achieved feasibility of an 8 MW (₹30 Cr+)** solar project by **implementing a novel solution** for inverter mounting. Consistently **controlled project design-driven costs to <1%** by collaborating with client and internal stakeholders during execution planning.
- Recommended improvements with an estimated **~20% cost reduction for up to 300 kWp projects** by assessing 5 MWp+ sites across North India.
- Contributed to a **35% Turn-Around-Time reduction** in B2C projects by addressing design queries and **upskilling 55+ channel sales executives**. Prepared PVSyst (simulation tool) SOP, improved design docs, maintained knowledge repository, and supported CFT for equipment design approvals.
- **Enabled 43% Turn-Around-Time reduction** by fostering AI assisted design tool adoption among channel partners.

Education

B. Tech (Mechanical) – *Indian Institute of Engineering Science and Technology, Shibpur | India*

Accomplishments

- Appreciation for filing four copyrights, Contribution to copyrights filing, Maruti Suzuki's IP meet (Maruti Suzuki)
- **Platinum Award, CII National Competition** on Digitalisation Robotics and Automation 9th Edition (CII, Feb 2024)
- Quarterly Rewards & Recognition – Q1 FY 2023-24 (Maruti Suzuki), Illuminous Award – Q3 FY 2021-22 (Tata Power)
- Publication: "Active Upper Arm Exoskeleton – Design and Kinematic Analysis", IEEE Region 10 Symposium (2019)

Certifications

- Machine Learning Specialization, Coursera (Stanford University and DeepLearning.AI)
- Driving business towards the Sustainable Development Goals, Coursera (Erasmus University Rotterdam)
- Data Analytics for Business Decision Making, All India Management Association (AIMA)

Extra-Curriculars

- **Vertical Head (Auto/ Aviation/ Manufacturing) - IIMA Placement Committee**
- **Photographer for Voice of PGPM team (IIMA)**; Photographs showcased during internal exhibitions (Maruti Suzuki)
- Videography and Co-director, Theme song, Quality Conclave (Maruti Suzuki)
- Event Coordinator – Instruo 2018, Annual Tech fest of IEST Shibpur
- Team Head, Roll-cage Design SAE IEST Chapter
- Research Assistant, School of Mechatronics and Robotics, IEST Shibpur
- Mentored ASME HPVC Team of IEST
- Represented IEST Shibpur at BAJA SAE India 2018 (ATV Design Competition)