

Soumen Roy

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Professional Summary

Innovative technology executive with 27+ years of experience leading end-to-end digital transformation across software, manufacturing, and consulting domains. Adept at architecting scalable solutions using AI/ML, Industry 4.0, and microservices. Proven ability to align product strategy with business objectives, build and scale high-performing teams, and deliver enterprise-grade software solutions. Strong experience collaborating with executive leadership and driving organizational growth through technology.

Technology Leadership Highlights

- Scaled engineering team from 3 to 65 at OpenLM, transforming SaaS product architecture to microservices and real-time analytics.
- Re-engineered ERP and business systems with AI/ML/RPA, saving costs and improving visibility across finance, HR, and operations.
- Implemented drone-based digital photogrammetry and LiDAR in steel manufacturing, achieving 30% improvement in inventory management.
- Led 60-year-old engineering consultancy into virtual design with 3D/4D BIM, reducing headcount by 68% while maintaining delivery.

Key Skills & Expertise

- Cross-functional Team Leadership
- SCM & Vendor Management
- Operational Efficiency & Cost Reduction
- Visionary technology leadership
- Scalability of platforms
- Product and innovation strategy
- Team-building and mentoring
- Stakeholder alignment (Board, Investors)
- Process Management & Transformation
- Data & Business Analytics
- Manufacturing Excellence & Automation (Industry 4.0, IoT)
- Strategic Planning & Change Management

Professional Experience

Tribe Lead | [OpenLM](#) (Sept 2022 – Present)

- Spearheaded AI/ML and NLP-based analytics integration into SaaS license monitoring products.
- Led transition to microservices-based architecture using Apache Spark, Kafka, and NiFi.
- Established India operations and scaled from 3 to 65 employees across tech and support.
- Aligned product development with market strategy and improved operational maturity post GEM audit.

Head – Business Process | [Gunung Raja Paksi](#) (Jan 2019 – Sept 2022)

- Acted as CTO-equivalent in transformation from family-owned to public company.
- Re-designed and integrated ERP, inventory, contract, and financial systems with AI/ML-enabled RPA.
- Implemented Executive BI platform for unified visibility across departments.
- Enhanced legacy automation to Level-3 smart manufacturing with cost and efficiency gains.

Senior Manager | [Tata Steel](#) (May 2015 – Jan 2019)

- Deployed drone-based digital photogrammetry and LiDAR in operations — the first in steel sector.
- Introduced Digital Twins, AR/VR, and IoT for predictive maintenance and inventory control.
- Re-architected logistics and inventory systems, recovering 30% revenue loss quarterly.
- Advocated and led Industry 4.0 initiatives across core manufacturing lines.

Project Manager | [M. N. Dastur & Co.](#) (Apr 2005 – Apr 2015)

- Modernized 60-year-old legacy engineering to 3D/4D BIM-based digital workflows.
- Achieved 68% workforce reduction by moving to virtual engineering without output compromise.
- Outsourced IT development to external vendors, reducing annual CAPEX significantly.

Early Career

- **Cadworld Infosystems** (2000–2005)
- **rites Ltd.** (1998–2000)
- **Irrigation Dept., Govt. of WB** (1998)
- **L&T-ECC** (1997–1998)

Education & Certifications

- Master's in Computer Application (MCA)
- Post Graduate Diploma in IT
- Bachelor of Arts
- Diploma in Civil Engineering
- Diploma in Transport Management
- Six Sigma Green Belt Certification
- PMP (35 PDU), AI, BI, ML, RPA Training

Technical Proficiency

- **Languages/Frameworks:** Python, .NET, SQL, LISP
- **Data & BI Tools:** Power BI, Tableau, Spark, Kafka, NiFi
- **ERP & Automation:** SAP, Industry 4.0, RPA
- **Modelling/Simulation:** BIM, CAD, Digital Twins, ESRI GIS, AR/VR, GPR, LIDAR

Publication

Mastering 3D Plant Engineering, Digitalisation & Automation

(<http://www.3dplantengineering.com/>)