Chandan Naveen

Robotics, Automation and Digital Manufacturing Engineer

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SUMMARY

Mechanical engineer moving from PLM consulting into robotics, automation and manufacturing. I spent two and a half years at Tata Technologies on Dassault Systèmes platforms and am now doing a master's in Robotics and Intelligent Manufacturing at UCD. I have programmed a KUKA KR10 robot in KRL, built a KUKA.Sim cell and worked on additive manufacturing redesign. I am looking for robotics, automation and manufacturing engineering roles in Ireland.

EDUCATION

MEngSc Robotics and Intelligent Manufacturing *Sep 2026 – Aug 2027 (expected)*

University College Dublin, Ireland

Robotics and Machine Vision, Industrial Automation (PLC), Robot Cell Design and Safety, Lean Manufacturing and Industry 4.0, Discrete Event Simulation and Optimisation, Operations Management, Supply Chain Analytics, AI in Engineering.

MS Computer Science (AI/ML) *Jun 2024 – Sep 2026*

Woolf University | CGPA 3.9 / 4.0

BE Mechanical Engineering *Graduated Jul 2023*

PES College of Engineering, Mandya, India | First Class with Distinction, CGPA 8.03 / 10

EXPERIENCE

PLM Technical Consultant, Tata Technologies *Aug 2023 – Apr 2026*

India | Pre-sales and post-sales on 3DEXPERIENCE, CATIA V5 and ENOVIA (Dassault Systèmes)

- Owned ENOVIA accounts for 30 to 35 customers in South India. Three to four deals closed under my ownership with the sales team.
- Ran 25+ proofs of concept and demos. Five solutions turned into business, including mould and tooling design, which I learned from scratch and demoed to senior client stakeholders.
- Delivered 5+ end-to-end PLM implementations covering EBOM and MBOM, change, project, variant and quality management.
- Designed 10+ custom workflows for change, approval routing and product release, so client processes ran inside the system.
- Installed and maintained on-premise 3DEXPERIENCE and CATIA V5 servers, including roles and licensing.
- Resolved 400+ technical queries. Ran 20+ training sessions for 100+ users, with feedback above 95%.

PROJECTS

KUKA KR10 pick-and-place cycle time optimisation *UCD, Nov 2026*

- Programmed a KUKA KR10 in KRL on the teach pendant to pick and place four bottles. Moved approach points closer and removed a repeated axis rotation, cutting the cycle from 66.88 s to 64.76 s (3.2%) at the same speed.
- Designed the bottle holder in Fusion 360. Published write-up and CAD on chandann.in and GitHub.

Robot cell simulation: KUKA.Sim SCARA PCB assembly *UCD, Nov 2026*

- Built a simulated cell where a KUKA KR 6 R700 SCARA places or rejects 14 components on a PCB. Wrote the KRL program and tuned it to a run time of about 44 s.

Aircraft bleed-air elbow for metal 3D printing *UCD, Nov 2026*

- Redesigned a welded turboprop elbow as one printed 316L part. Case study covered cost (€1,657 per elbow at 80 a year), lead time (first five in 8.4 days against 45 to 192 for welded spares), sustainability and Lean. Design and analysis only, nothing was printed.

Predictive maintenance dashboard *GitHub*

- Predicted remaining useful life of 100 turbofan engines from 21 sensors (XGBoost, R^2 0.777). Flags the most unusual sensor per engine in a Streamlit dashboard.

SKILLS

Robotics and automation: KUKA KRL programming, KUKA.Sim, cycle time optimisation, robot cell layout, Siemens PLC and TIA Portal and HMI design (course level), collaborative robots, MATLAB.

CAD and PLM: CATIA V5, 3DEXPERIENCE, ENOVIA, SolidWorks, Creo, AutoCAD, Fusion 360, GD&T, DELMIA (basics).

Manufacturing: Mould and tooling design, design for manufacture, additive manufacturing, Lean (5S, TPM, standard work), Six Sigma Green Belt, FMEA, poka-yoke, root cause analysis.

Data and tools: Python (Pandas, NumPy), SQL, Power BI, Tableau, Excel, Minitab, SAP and ERP concepts.

CERTIFICATIONS

- Six Sigma Green Belt Specialization, Kennesaw State University
- Collaborative Robotics in Industry Specialization, L&T EduTech
- Learn PLC and HMI from Scratch Specialization, Packt
- Additive Manufacturing Specialization, Arizona State University, and Additive Manufacturing Scientific Concepts, University of Miami
- Digital Technologies and the Future of Manufacturing, University of Michigan Ross
- Amazon Supply Chain Specialist Professional Certificate, AWS
- Advanced Certificate in Data Science (Business Analytics), IIIT Bangalore
- 40 Dassault Systèmes certificates across 3DEXPERIENCE, CATIA, ENOVIA, DELMIA and SIMULIA
- Johnson & Johnson MedTech Robotics and Controls job simulation, Forage

LANGUAGES

English, Kannada and Hindi (fluent). Telugu and Tamil (basic). German (beginner).