



Pranshu Shubham

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Summary

Mechanical engineer with 4.5 years driving process improvement, product testing and component reliability for ASML's high-precision semiconductor capital equipment. Delivered 30% cycle-time reduction and evaluated 50+ design cases to reduce failures.

Professional Experience

Mechanical Component Engineer | ASML B.V. | The Netherlands (01/25-03/26: 1.2 years)

- Effectively managed PLM data of mechanical, chemicals, lubricants and adhesives and ensure compliance
- Supported design engineers with component selection for legacy, upgrades and new projects
- Collaborated with technical competences, supply chain and factory teams to resolve design escalations
- Investigated and sourced RoHS, REACH and PFAS-free component alternatives for sustainable design

System Qualification Test Engineer | ASML B.V. | The Netherlands (10/21 - 12/24: 3.2 years)

- Executed qualification of high-precision light source equipment to meet performance & quality specifications
- Led operational knowledge sharing meetings to capture & institutionalise best practices for production & NPI
- Collaborated across teams to improve processes, exceeding cycle time reduction KPI by 30% (2022-23)

Education

TU Eindhoven, The Netherlands, MSc Mechanical Engineering (2018 - 2021)

Specialization in Microsystems/Microfabrication (Semiconductor Manufacturing | Machine Learning)

Manipal Institute of Technology, India, B.Tech Mechanical Engineering (2014 - 2018)

Minor in Business Management (Finance | Human Resource Management | Operations | Marketing)

Accomplishments and Awards

- **Galling project (2025):** Collaborated with factory and design teams to investigate 50+ galling cases & offer industrialization perspective in component selection to reduce future issues
- **5S Project Coordinator Pilot (2024):** In a multinational team of 5, developed a 5S handbook, auditing tool, and shop floor processes to deliver ease of execution and transparent communication of 5S actions
- **2nd Position in ASML CI Award (2024):** In a team of 3 multinational colleagues, investigated and delivered a business case that modified a test and qualification operation, yielding 70% reduction in its cycle time

License & Certifications

- Semiconductor Packaging (ASU, Coursera - 2024) & Semiconductor Fabrication 101 (Purdue University - 2024)
- Six Sigma Green Belt Specialisation Course (Kennesaw State University, Coursera - 2024)
- AI Infrastructure and Operations Fundamentals (NVIDIA via Coursera 2024)
- Finance for Technical Managers (UC Boulder Lockheed Martin Management Program, Coursera - 2023)
- The Business of HealthCare (PennMed Wharton, Coursera – 2022)
- AI and Data Science Bootcamp (Fruitpunch AI Eindhoven - 2021)

Co-Curriculars

- Volunteer for expat cultural events in The Netherlands (2025)
- Led structures sub team at SolarMobil Manipal. Represented it and secured 3rd position in regional research competition (2017)