

Piyush Suresh Baravkar

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Work eligibility: 20 hrs/week during semester, full-time during breaks (German student visa)

SUMMARY

M.Sc. Sustainable Energy Systems student at TU Dortmund (expected 2027) with 9+ months' hands-on experience delivering 100 kW+ solar PV projects in India. Strong in system design (AutoCAD), O&M, inverter and grid-tied system commissioning, and data-driven performance analysis. Seeking a working student or internship role in Germany's energy transition — grid integration, renewable project development, or energy markets — to apply technical expertise to real-world challenges.

EDUCATION

M.Sc. Sustainable Energy Systems

Apr 2025 – 2027 (expected)

Technical University Dortmund, Germany

Relevant coursework: Energy Markets & Trading, Renewable Energy Systems, Energy Economics, Grid Integration.

B.E. Electronics & Telecommunication Engineering

2020 – 2024

Savitribai Phule Pune University, India | Final Grade: 8.28 / 10 CGPA

RELEVANT EXPERIENCE

Project Execution & Design Executive

Jul 2024 – Mar 2025

ZTRIC India Pvt. Ltd., Pune, India

- Delivered 4 solar PV projects (103 kW) on schedule, supervising 6–12 person teams and €900+ procurement; zero safety incidents.
- Increased rooftop capacity 60% (5 → 8 kW) by redesigning layouts in AutoCAD through space-utilization analysis.
- Maintained 99%+ uptime on installations up to 110 kW by resolving grid-tied and ZED inverter issues within 24–48 hours.
- Coordinated 5–6 suppliers for cost-effective sourcing; resolved supply-chain delays within 1 week.
- Prepared weekly KPI reports for 5+ stakeholders covering capacity factor, generation vs. forecast, and maintenance.

Intern – CNC Machinery and Automation

Jan 2023 – Apr 2023

Technosys Automation, Pune, India

- Designed, wired, and assembled 6+ CNC control panels with a 4-member team; introduced batch workflow cutting build time 20% (10 → 8 days) and boosting efficiency 40%.
- Achieved 20–30% material cost savings through precision cutting and cable tray reuse.
- Hands-on experience with PLC programming, ladder logic, and Siemens/Fanuc drives for CNC automation.
- Conducted 12+ site visits to troubleshoot electrical faults and minimize downtime for 5–6 clients.

PROJECTS

Solar PV System Performance Analysis & Monitoring (Project Lead) — Led a performance audit of 10+ installed systems (100 kW+ total) to validate generation against design expectations. Built monitoring dashboards in Excel tracking daily/monthly generation, capacity factors, and system health metrics for client

reporting. Identified underperforming systems through data analysis, leading to corrective maintenance that improved generation by 5–8%.

SKILLS

Technical Tools: AutoCAD (2D), MS Excel (Advanced – PivotTables, VLOOKUP/XLOOKUP, Macros, VBA), MS Office

Energy Systems: Solar PV system design, Grid-tied systems, Zero Export Device (ZED) integration, Inverter configuration & commissioning, Performance monitoring, Operations & Maintenance (O&M)

Project Management: Stakeholder coordination, Team leadership (up to 12 members), Procurement & vendor management, Timeline management, Risk mitigation, Site assessment

Automation Exposure: PLC programming, Ladder logic, Siemens & Fanuc drives (CNC), Control panel wiring

Languages: English (Fluent), German (B1), Hindi, Marathi

SOFT SKILLS

- **Leadership & team management** — Supervised 6–12 person installation teams across 4 solar PV projects at ZTRIC.
- **Public speaking & outreach** — Public Relations Committee member, SPPU; coordinated student outreach and events.
- **Teamwork & endurance** — Grade 'A', Avhaan Adventure Camp (Guardian Giripremi Institute of Mountaineering).
- **Client communication** — Business Development intern, Choice TechLab Solutions; client outreach and follow-ups.

CERTIFICATIONS & TRAINING

- **AutoCAD 2D Certification** — Design Studio (2025). Technical drawings, site plans, solar PV layouts.
- **Microsoft Excel – Advanced** — Udemy, Kyle Pew (2025). Functions, PivotTables, PowerPivot, Macros & VBA, Dashboards.
- **Renewable Energy Technology Fundamentals** — University of Colorado Boulder (2024). Wind, solar, and storage technologies.

HOBBIES & INTERESTS

- Renewable energy and the energy transition — following industry news, policy, and market developments.
- Adventure sports — mountaineering, trekking, and outdoor endurance activities.
- Innovation challenges & hackathons — cleared college-level rounds of Smart India Hackathon 2023.
- Reading on energy policy, grid technology, and emerging clean-tech business models.