Rameshwar Wagh

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Summary

Results-driven Product Portfolio Manager with 9.5 years of experience in R&D, Engineering, and Project Management across the rolling stock and precision motion industries. Demonstrated expertise in cross-functional leadership, strategic innovation, and end-to-end product success.

Professional Experience

Product Portfolio Management Professional | Siemens | Nashik

- Managed the **product portfolio** for railway propulsion systems (traction motors, gearboxes, traction and auxiliary converters), aligning product performance with Siemens' business goals.
- Led a cross-functional team to execute a strategic roadmap addressing evolving **electronic import regulations** (MHI OTR, QCOs), ensuring business continuity and **mitigating risk of ~₹300 million** in annual financial impact.
- Formulated **risk mitigation strategies** for high-impact, long-lead-time components, improving sourcing reliability and operational resilience across product lines for the next 5 years.
- Collaborated with a cross-border Technical Regulations and Standards team to address complex compliance challenges in multi-national regulatory environments.
- Collaborated with the Bid team to conduct detailed requirement analysis and ensure **clause-by-clause compliance** with APS product-related tender specifications.

Manager - Component Engineer | Siemens | Nashik

- Led cross-border teams to engineer India's first high-efficiency (~97%) Auxiliary Converter for the **Vande Bharat Train**, enabling annual **energy savings of ~2400 billion joules**.
- Led localization and **technology transfer** initiatives at Siemens to enhance go-to-market readiness and manufacturing self-reliance under the Government of India's 'Make in India' initiative.
- Led product qualification through DFMEA, DFM, DFS, and field trials, ensuring customer satisfaction and technical robustness.

Sr. Executive Product Development| Siemens | Nashik

- Completed a new product development project in 5 months - **60% faster than the industry benchmark**.
- Initiated and executed cost reduction projects with **₹7.5 million in annual savings** through component optimization.
- Acted as the single point of contact for customer service during field failures, ensuring fast resolution, detailed root cause analysis, and long-term reliability of propulsion systems

Sr. Engineer| Portescap | Mumbai

- Engineered a BLDC driver PCB test system in collaboration with mechanical teams, cutting testing time to 15 seconds, reducing post-assembly rejections by 5%, and delivering **$90,000 in cost savings** through enhanced design validation.
- Led end-to-end **new product development** from requirements gathering to production while managing cross-functional stakeholders and external vendors.
- Created an industry-first load simulation test setup for miniature motors, significantly improving validation accuracy and reducing customer integration issues.
- Developed a Smart Motor DAQ system with cloud connectivity (ThingSpeak), real-time data logging, and mobile monitoring, enabling remote diagnostics, predictive maintenance, and usage tracking.
- **Led the design and development** of hardware and embedded software for precision motion control systems, including advanced piezoelectric and stepper motor drivers.

Education

M Tech (Electronics) – *Veermata Jijabai Technological Institute | Mumbai, India*
BE (E&TC) – *BRACTs VIIT | Pune, India*

Accomplishments

- Co-invented a **patent** for brush wear detection in DC miniature motors.
- Awarded 'Best Team Performance' for leading a team that resolved a critical customer issue in a new product launch.
- Awarded 'Star Performer of the Month' at Siemens for cutting prototyping and validation cycle from 12 to 5 months through cross-functional collaboration.
- Awarded **Gold Medal** at Portescap in Process Innovation for developing a test system for BLDC driver PCBs
- **Co-authored** "Laser Triangulation Based Object Height Measurement", published in the International Journal for Research in Emerging Science and Technology & "Calibration Method for Height Measurement of Object Using Laser **Triangulation**", published in the International Journal of Technology Enhancements and Emerging Engineering

Certifications

Product Management Cert: Agile, Scrum & Product Owner, Packt - Coursera
Mastering Digital Twins, EIT Digital – Co-funded by EU

Extra-Curriculars

- Participated in a **Kaizen workshop** at Portescap, applying 5S principles to reduce assembly line space by 30% and improve workflow efficiency.
- Completed **LabVIEW Core II & III certifications**, developing scalable, automated motor test stands with advanced data acquisition and control.
- Guided **Matlab-based projects** for engineering students, contributing to technical education and skill development.
- Conducted workshops on **Bluetooth-Controlled Robotics using Arduino** at Terna Engineering College and Fr. C. Rodrigues Institute of Technology.
- Led a **CSR initiative** at Ashram Schools in Palghar, engaging students and distributing STEM kits to promote hands-on science learning.