

SOHAM HARMALKAR

Supplier Industrialization | Component Development | NPI | SQE

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Available from August 2026 / Open to internship and full-time roles



500+ components developed end-to-end | €50M development budget | €3.7M cost savings | 25+ concurrent suppliers | 7+ yrs automotive OEM

PROFESSIONAL SUMMARY

Casting and machining specialist who has taken **500+ components** from first drawing to series production across two automotive OEMs. Built and scaled supplier networks of **25+ vendors**, controlled development budgets of **€50M**, and drove **€3.7M in cumulative cost savings** through value engineering, material substitution, and die optimization. Led supplier industrialization for the Bajaj-Triumph joint venture (Speed 400, Scrambler 400), coordinating between UK design and Indian production to hit international quality targets at 20% lower cost. Now completing an MBA at HHL Leipzig; seeking component development or supplier industrialization roles in German automotive, aerospace, or manufacturing.

KEY RESULTS AT A GLANCE

500+ components developed end-to-end
€50M development budget owned
25+ suppliers managed concurrently
€3.7M cumulative cost savings

33% cycle time reduction (12 → 8 min)
40% defect rate reduction via ML prediction
30% warranty claim reduction in Year 1
50% faster PPAP approval (digital workflow)

CORE COMPETENCIES

- HPDC, LPDC, Gravity & Sand Casting
- Die & Fixture Design Review
- Supplier Auditing (150-parameter system)
- ECN/ECR Management
- APQP / PPAP / PFMEA / Control Plans
- Zero-Based Costing / Should-Costing
- 8D / Root Cause Analysis / Ishikawa
- SAP MM · Siemens Teamcenter · MATLAB

PROFESSIONAL EXPERIENCE

Bajaj Auto

Jan 2022 – Feb 2024

Manager, Component Development – Casting & Machining

Pune, India

OEM — €28B market cap — Triumph, KTM, Husqvarna, Bajaj platforms

- Owned end-to-end industrialization of **200+ cast and machined components**, from drawing review and die design through PPAP to SOP, across 8–10 vehicle platforms with a **€23M** tooling and facilities budget.
- Ran supplier industrialization for **Bajaj's first joint venture with Triumph Motorcycles UK**: liaised between Triumph's UK design team and Bajaj's production floor, and secured a **20% budget increase** from Bajaj leadership to meet Triumph's international quality standards.
- Cut cycle time **33%** (12 → 8 min/part) and boosted machine output **65%** through setup time reduction and production workflow redesign on Triumph components.
- Saved **€60K/year** by replacing AlSi9MnMg with ADC12 on three-wheeler handlebars; presented the business case directly to Bajaj's Managing Director.
- Built and deployed an **ML-based defect prediction system** (MATLAB Image Processing, X-ray vs. ASTM E2422 reference set, ~80% accuracy) — cut high-value component defect rates **40%**, saving €50K/year in rework.
- Deployed a **150-parameter supplier rating system** to match part complexity with vendor capability; adopted department-wide and later extended to cast iron suppliers.
- Drove warranty claims on casting defects down **30%** in one year through a structured acceptance framework established between plant quality team and suppliers.
- Created a semi-automated Excel tracking tool (pivot tables, conditional formatting) that ranked best-in-class among 40 peers, standardized across the department.

Mahindra & Mahindra*Deputy Manager, Powertrain Component Development*

OEM — €40B market cap — Thar, XUV700, 15 engine platforms

- Acted as a program manager and independently delivered India's first **aluminum diesel engine block** (Thar, XUV700) with DR Axion (South Korea) — 25 kg lighter than cast iron, completed in **24 weeks** across 3 sites (casting Chennai, machining Pune, assembly Igatpuri).
- Slashed casting rejection from **15% to 5%**, adding 65 parts/machine/day through die redesign and process parameter optimization.
- Delivered **€2.2M cost savings** across 15 platforms via wall thickness reduction, die modification elimination, and rejection rate improvement.
- Built a digital PPAP approval workflow with Mahindra's IT team which **halved supplier PPAP qualification lead time**.
- Recognized in **top 1% of organization** (6 awards). Promoted to Deputy Manager in 3 years vs. typical 4–5.

Jan 2020 – Dec 2021*Pune / Chennai, India***Mahindra & Mahindra***Post Graduate Engineering Trainee*

- Developed a new aluminum casting process achieving **first-time-right** success; cut development cycle from **16 to 12 weeks** by embedding DFM constraints earlier in the design loop.
- Audited **35 casting suppliers**, built the 150-parameter ranking framework, and launched vendor workshops that accelerated cross-supplier capability improvements.
- Led **150+ part developments** across 15 BS6 platforms in 8 months during COVID-19, ensuring on-time emission compliance for Mahindra's entire powertrain lineup.

Jan 2017 – Dec 2019*Pune / Chennai, India***EDUCATION**

HHL Leipzig Graduate School of Management, Germany

MBA – Strategy, Innovation Management, Technology Consulting

Sep 2025 – Aug 2026 (exp.)

- Focus Areas: Corporate & Business Strategy, Innovation Management, Product Growth, Problem Solving & Communication, Technology & Digital Consulting
- Activities: Engaged in case-based learning, leadership development, and cross-cultural team projects

Indian Institute of Technology (IIT) Kharagpur, IndiaM.Tech., Manufacturing Science & Engineering · **9.24/10, 3rd in class**

2014 – 2016

Shivaji University, IndiaB.E., Production Engineering · **73.21%, 8th in University**

2010 – 2014

PUBLICATION

Investigation of wear and corrosion characteristics of stellite-6 and stellite-21 layers deposited by co-axial laser cladding. ASME 2017. DOI: 10.1115/MSEC2017-2841**LANGUAGES**

English (C1) · German (A2, improving) · Marathi (Native) · Hindi (Fluent)