Jay Khatri

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Experience

Oct'19-Current, OPD Engineer at Ford Motor Pvt Ltd, Sanand, India

- Lead design issue resolution and implementation of corrective actions with appropriate DMAIC/5D and appropriate quality tools for post engine launch field issues to meet quality targets. Update relevant design rules, DFMEA and PFMEA to prevent recurrence.
- Co-lead with cross-functional team for release and implement running product design changes.

July'17-Aug'18, Powertrain Engineer at Ford Motor Pvt Ltd, Sanand, India

- Administered and coordinated launch of 2.0L Diesel engine from prototype build stages to mass production, on site design issues, NVH and Durability Testing, assembly line issue, release of engine assembly chart and control plans ensuring on time launch within cost and quality targets.

Jan'16-June'17, Powertrain Engineer at Ford Motor Pvt Ltd, Chennai, India

- Led water-pump and thermostat seal design change to reduce warranty costs and in plant increased New design also resulted in increased FTT for engine cooling cavity leak tests. Released design and process validation test plans, conducted teardown analysis, release engineering sign-off and support PPAP activities.
- Co-developed lifting eyes, Oil pan and support brackets with local supplier footprint as part of Total Value Management (TVM). Communicating design requirements, discuss manufacturing feasibility, component design and process validation plan, release engineering sign-off and support PPAP activities.
- Collected data on Indian metro cities driving pattern to develop robust testing cycles, reducing testing time and cost and increase robustness of validation inline to Indian customer driving pattern.

Aug'15-Dec'15, Resident Engineer at Ford of England, Essex, UK

- Responsible for engine system level testing plan release, monitor testing progress, post teardown analysis for various localization and quality actions pertaining to Diesel engines manufactured in India.

Sep'14-July'15, Powertrain Engineer at Ford Motor Pvt Ltd, Chennai, India

- Led engineering change control for all changes for diesel engines manufactured in India. Liaise with global and local teams to implement engineering changes on time with approved costs with various cross functional team for manufacturing sites in India.
- Responsible for maintaining Bill of Material (BOM) in WERS for all diesel engines manufactured in India. Ensuring bottom level systems have BOM correctly for various activities at different department levels.

Aug'13-Aug'14, Ford College Graduate (FCG) at Ford Motor Pvt Ltd, Chennai, India

- Developed understanding of how a global automobile manufacturing company works with induction/on the job training/shadowing with various stakeholders and departments.
- Implemented cost reduction action on diesel Engines which required design changes on intake system, Engine mounts and validating NVH with various teams. Align and liaise with various teams to conclude on Design of Experiments (DOE). Was implemented with approx. save of 1.5% per diesel engine.

Education

Sept'18-Sept'19, MSc Sustainability in Transport, University of Leeds

- Grade: Distinction
- Relevant subjects: Transport data collection and analysis, Transport and urban pollution, Shaping future transport systems, Environmental science and sustainability for transport, Green logistics.
- Dissertation: Assess and compare impact on lung function from short term exposure to traffic related air pollution (TRAP) in controlled and polluted route.

July'09-June'13, Bachelor of Engineering in Automobile Engineering, L.D. College of Engineering

- CGPA: 8.35/10
- Project (team of 6): Design and development of an All-Terrain Vehicle (ATV) with horizontal suspension at front and different wheel tracks with external funding of 130,000 INR. (Published: Times of India)

Awards

July'2018:	Transport masters employer's scholarship worth £ 2000.
May'2018:	Efforts for successful launch of Panther 2.0L diesel engine at Ford Sanand Engine plant
Oct'2017:	B562 MCA DV5 NLFR Piston and rings and Engine retro-fitment for VP cars
April'2017:	Ford Asia Pacific Recognition for Implementation of NLFR Piston and Ring pack for HTIS (High Time in Service) field Issue
Dec'19:	Systra award from Institute for transport studies.

Languages

English:	Fluent
Gujarati:	Native
Hindi:	Bilingual
German:	Elementary
Tamil:	Elementary

Computer Skills

AutoCAD, Pro-E 5.0, Teamcenter, WERS (Worldwide Engineering Release System), Microsoft Office Suite, Tableau, R Language (Openair, mapview and ggplot2 packages), DEFRA emission modelling toolkit, and Minitab

References:

Available on request.