



Nikhilesh D Diore

Technical Project Manager, HD Engines & Aftertreatment Professional, EV Enthusiastic - 17 Years Experience

Contact

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Skills

Emission Development



Requirement Specification



Product Development



Six Sigma



ALD Engineering



A collaborative Technical Project Manager specializing in heavy-duty diesel engines and skilled at planning, implementing, and overseeing key improvements to drive business growth and efficiency. Had worked in different roles in Cummins India Ltd (Engine Manufacturer) which brought me the overall experience of 16+ years, broadly categorized in the design & validation of diesel engines & its after treatment systems on the newest emission norms in the automotive industry.

Also, my previous experience in TATA Motors Ltd & Man Force Trucks Pvt Ltd (India's top commercial vehicle OEMs & engine manufacturer) has brought me broad product-level exposure & its development activities. Overall with all this experience, made me confidently able to understand & work better on the product development of emissionized HD IC engines & commercial vehicle development

Work History

2022-10 -
Current

Senior Manager, Volvo MDE Engine&EATS Systems Engg

Volvo Eicher Commercial Vehicles Ltd, Indore, Madhya Pradesh

- Responsible technical manager for **MDE8** engine 400hp high horse power **BSVI** rating & 350hp **EU VII** common fuel economy components development project with Volvo GPD process. Technical gate audit responsible for PCI, CG, DG, FDIG, RG gates for programs
- Regular discussion with PSP (Project strategy planning) team on project requirements from marketing and translating it to technical requirements of engine key performance indicator (KPI) & project objective. Defining KPI to each technical team deliverables tracking
- Vehicle integration of MDE8 engine, engine inputs to vehicle peripheral team for subsystem design to meet project KPI deliverables
- BSVI & EUVII engine build responsible for MDE8 diesel engines. Vehicle build issue concern person for resolution
- Build failure & field failure (Protus) issue co ordination with technical team for resolution
- Develop fuel economy (FE) component ideas with appropriate business case & QDCFS (Pugh)

Cross Functional Design

Reviews

Matlab

Project Management

Resource Forecast

Languages

English

Upper intermediate

Hindi

Advanced

Marathi

Advanced

2015-05 -
2022-09

- matrix evaluation
- Face to face meetings with Volvo Trucks, Lyon, France counterparts at regular interval for project co ordination, consensus building meetings
- Co ordination between functional technical leads & global Chief managers for project deliverables on time as per scheduled builds of project timelines
- Providing inputs to Matlab Simulink model (Plant modeling) development team based on the hardware functionality & behavior at test cell for software development
- Allocate appropriate budget & resources for the project deliverables
- Update local leadership on regular basis for the project highlights, progress & help required
- Developed and initiated projects based on business case, managed costs (both product cost & project cost), and monitored performance
- Providing detailed project status updates to stakeholders and executive management on weekly basis
- Schedule and facilitate meetings between project stakeholders to discuss deliverables, critical path, schedules and conflicts

Technical Specialist - Aftertreatment Catalyst

Cummins Emission Solution Ltd, Pune, Maharashtra

- Led catalyst integration validation for **Claas UK tractor OEM for Stage V** emission norms - **April 2022-Oct 2022**
- Validated catalyst selection on **TATA Motors B5.6, B6.7 & Ashok Leyland (Hino H6) BSVI (EUVI) OBD-C** projects for after treatment integration with engine for meeting the **BSVI (EUVI) 2023 OBD-C** emission norms along with cost reduction initiative implementation around - **April 2021-Oct 2022**
- Integrated catalyst selection for **BSVI (EUVI)** architecture **Ashok Leyland (Hino H6)** project external customer - **2019-2020**
- Worked with catalyst supplier from experimental phase to PPAP for new & existing catalyst technologies **2018-2022**

- Developed prototype with coater & substrate supplier for the on highway programs for meeting the **BSVI (EUVI)** emission norms **2018-2020**
- Conducted & passed cross functional design reviews for validation of catalyst performance **BSVI (EUVI)** within project milestones successfully **2018-2019**
- Providing inputs to Matlab Simulink model development team based on the hardware functionality & behavior at test cell for software development
- Owned and resolved complex FIRGs during the development of **BSVI (EUVI)** programs with systematic approach **2019-2021**
- Tuned aftertreatment controller portion of ISB6.7 245,300hp after treatment for TATA Motors **BSIV (EUIV)** application conducted & passed cross functional reviews - **2015-2017**
- Successfully delivered DOC only **BSIV (EUIV)** architecture programs for TML497 & CPCBII emission norms - **2015-2017**

2013-03 -
2015-04

Senior Design Engineer - Aftertreatment

Cummins Emission Solution Ltd, Pune, Maharashtra

- Led packaging team in India for designing & development work of North America global program name Shadowfax (ISB4.5 engine) for meeting **Tier4 Final** emission norms. Successfully completed this program first time led from India for cost saving of approx. \$0.2M **2013-2015**
- Developed after treatment sheet metal parts with for North America suppliers on Shadowfax program with DQR discussions and negotiations **2013-2015**

2012-05 -
2013-03

Assistant Technical Project Leader

Cummins Power Generation, Pune, Maharashtra

- Developed low horse power Simpson (Engine supplier) emissionized engines for meeting **CPCB II** generator norms. Worked as Assistant Technical Project Leader (TPL) for these generator programs, thereby meeting program timelines and budget in effective way - **2012-2013**

- Used critical thinking to break down problems, evaluate solutions and make decisions on validation of engines
- Delivered **CPCB II** complaint Gensets prototypes to OEMs locations within expected timeframes & meeting customer satisfaction **2012-2013**

2011-03 -
2012-05

Design Engineer - Base Engine & Peripherals

Cummins Research & Technology India Ltd, Pune, Maharashtra

- Reverse engineering tool - Created Geomagic software modeling of Diesel/Gas engine cylinder head from scanned point cloud data for global customers for current product issues for QSK50 & QSK60 engines
- Created Virtual Build Presentation of 6 cylinders in line B6.7 Engine thereby helping UK production line to be aware of engine assembly process & technical engineering support
- Created of FEP (Functional Excellence Practice) document for Geomagic work & Virtual Build Presentation work
- Designed Fuel Filter Support Arrangement thereby providing most cost effective design to USA development team for Tier4 final engine. Cost saving approx. \$15k
- Designed exhaust manifold concepts using ALD tools for QSK60 Tier 4 engine for USA development team for Tier4 final engine

2008-05 -
2011-03

Design Engineer - Base Engine & Peripherals

TATA Motors Ltd, Pune, Maharashtra

- Designed & developed air intake, exhaust, fuel system & static components of 697TCIC engine (BSIII (EUIII Eq) emission) prototype development. It was highest selling truck model LPT1613 (40% of total TATA Motors sales ~ \$8k M P.A business) – 2008-2011
- Developed new generation 8L BSIV (EUIV) direct Injection heavy commercial engine prototype with required drawings and sub assembly drawings of base engine components like cylinder head, block & their sub assemblies within

program timeline and allocated budget -
2008-2011

- Performed warranty analysis of 697 engine thereby analyzing field return samples and reaching to root cause of failed components and providing improvement recommendations. Cost saving of approx. ₹900 (10\$) per part by avoiding failure & its warranty - 2008-2011

2007-08 -
2008-04

Graduate Engineer Trainee

Man Trucks Pvt Ltd, Indore, Madhyapradesh

- Enthusiastic associate engineer looking over production lines of rear axles, front axles of different truck models to meet vehicle manufacturing targets. Daily pulling of material from stores to meet daily production target of front axle meeting customer requirements
- Supervised 26 employees throughout production of subassembly and main assembly line execution of axles

Education

2000-07 -
2001-07

High School Diploma

*Maharashtra State Board, Somalwar High School -
Nagpur, MH*

GPA: 63.06%

2004-07 -
2007-07

Bachelor of Engineering Technology: Mechanical Engineering

*Yeshwantrao Chavan College Of Engineering -
Nagpur, MH*

GPA: 65.53%

Certifications

Catalyst Award Winner – Q2 2013 for Global Involvement & Q3 2015 for delivering superior results

Six Sigma Training+ 2 projects completed – May 2015

Strengths

- Resourcefulness
- Multitasking, ability to work on different programs
- Good Interpersonal Skills
- Good Writing Skills
- Commercially Aware

Association

PWD committee member 2019-2022 at Cummins
LGBTQ ally 2019-2022 at Cummins