Jay Khatri

AUTOMOBILE ENGINEER/CLIMATE SCIENCE POLICY RESEARCHER

Personal Profile

Engineer turned climate science policy researcher with a focus on transport and urban air quality. More than 5 years of experience in engine engineering delivering projects independently and with cross-functional teams

Skills and Languages:

R , DEFRA emission toolkit, Teamcenter, Pro-E, AutoCAD, Minitab, Tableau, Data assessment, Research and data collection.

English, Hindi, Gujarati, German (Elementary) and Tamil (Elementary).

Contact Details

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Academic Background

UNIVERSITY OF LEEDS

Sep'18 - Sep'19 : MSc Sustainability in Transport

- **Distinction**
- **Systra award** and **2000 GBP Transport employers scholarship**
- Dissertation: Dissertation: Assess and compare impact on lung function from short term exposure to traffic related air pollution (TRAP) in controlled and polluted route.

L. D. COLLEGE OF ENGINEERING

Jun'09 - Jun'13 : B.E. Automobile Engineering

- **8.35/10** CGPA
- Project (team of 6): Design and development of an All-Terrain Vehicle (ATV) with with external funding of 130,000 INR. (Published: Times of India)

Research Experience

- Recruited participants, procuring and validating instruments, conduct trials to scope routes and check feasibility of experiment design, air quality data analysis using R with openair/ggplot/mapview packages, quantitative analysis using t-test, corelation test, Poisson distribution, regression and descriptive statistics.
- Desktop research on effectiveness of clean air zone in EU, Ahmedabad BRTS case study and its impact on future of transport in India BRT projects.

Work Summary

FORD MOTOR COMPANY

Aug'13 - Current : Powertrain Engineer

- Lead design issue resolution and implementation of corrective actions for after market field issues to reduce warranty costs. **Achieved set targets**.
- 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**.
- Implemented water-pump and thermostat seal design change to reduce in-plant leak **rejections to <1% and eliminate warranty cost**.
- Co-developed lifting eyes, Oil pan and support brackets with local supplier footprint as part of Total Value Management (TVM) delivering **3$ save/engine**.
- Hosted **4 competitor engine benchmark** study events.
- Implemented TVM action **reducing cost by 1.5%** using DOE methodology and quantitative analysis of experiment data..

References:

- Dr. James Tate
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- Dr. Caroline Mullen
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