

AVINASH DONGARE

Senior Manager at Tata Motors

@ avinashd.gceme@gmail.com

8378 8378 65

avinashdongare99

EXPERIENCE

Senior Manager

Tata Motors

August 2018 – Ongoing

Pune

Role : System Engineer

- 1D simulations of EV powertrains for generating technical requirements for different EV aggregates e.g. electric motor, battery etc. to fulfill vehicle targets; EV range as per the standard regulations, and vehicle performance targets
- 1D simulations of hybrid electric vehicles for assessing; fuel economy over different certified and real world drive cycles, performance, and component sizing
- Mapping vehicle targets to EV aggregates, RFQ preparation, supplier selection for different components like motor and battery, and coordinating with different suppliers as a core technical person for procuring the components

Key Achievements

- Successfully generated technical requirements of electric motor and battery for different SCV EV powertrains
- Successfully conceived a low voltage Plug-in hybrid powertrain

Role : Control Strategy Architect

- Developing control strategy in MATLAB Simulink adhering to MAAB guidelines, and V & V process for control strategy development
- Calibrating and testing the developed control strategies using INCA and MDA software

Key Achievements

- Hands on experience of control strategy development for controlling xEV powertrain
- Successful implementation of "Blower control software"

EDUCATION

M.Tech. in Fluid & Thermal Engineering

IIT Guwahati

July 2016 – August 2018

Guwahati

CGPA – 8.4/10

Thesis : Investigation of Turbulent Multi Fluid Flow

- Developed a numerical model for simulating Turbulent multi fluid flows
- The project was sponsored by Board of Research in Nuclear Sciences

B.E. in Mechanical Engineering

Government college of engineering Karad

July 2011 – June 2015

Karad

Percentage – 73%

LIFE PHILOSOPHY

"The secret of life is to make stepping stones out of stumbling blocks."

PROFILE

- Mechanical Engineer offering nearly 4 years of experience in New Product Design and Development of Automobile Powertrains, specifically EV powertrains for delivery of Best in class products as per global standards
- Contributed remarkably as a system engineer in conceiving a low voltage plug-in hybrid powertrain for cost sensitive indian market
- Proficient in technical requirement generation for different components like motor and battery
- Skilled in control strategy development, testing, and calibration

ADDITIONAL SKILLS

- Sound understanding of vehicle dynamics
- Strong interpersonal & communicational skills
- Good knowledge of NPI process
- Awareness about recent enhancements in Li-ion battery
- Good knowledge of regulations (AIS 040, AIS 137, CAFE norms, WLTP regulations)
- Sound knowledge of "World class Quality" standard
- Acquainted with "A2MAC1" for benchmarking of different systems & subsystems
- Ability to deliver under strict timelines
- Ability to work collaboratively as part of a team

LANGUAGES

English

Hindi

Marathi



TOOL EXPERTISE

ANL – Autonomie

Ricardo – IGNITE

DYMOLA

NREL – ADVISOR

MATLAB

MATLAB Simulink

INCA

Measurement Data Analyser

Vector CANdb++

A2MAC1

Microsoft Excel

AWARD & ACHIEVEMENTS

- Received an appreciated for exceptional leadership behavior and awarded with “#Leading by Example”
- Actively participated in "IMAGINEERING – an initiative by R&D department of Tata Motors to promote innovation"; prepared and presented a model for predicting clutch life
- Developed a numerical model for turbulent multi-fluid flow while working on a project sponsored by Board of Research in Nuclear Sciences (BRNS)
- Secured AIR 1086 out of 2.3-Lakh candidate appeared for the exam in Mechanical Engineering domain

SOCIAL ENGAGEMENTS



TATA Volunteering Week

Served as a volunteer in TATA volunteering week and visited “Lions Home for Aging Blind located at Lonavala - Khandala” which helps aging and elderly blind men and women discarded by their families and bring them in to the main stream of society



TATA Volunteering Week

Participated in tree plantation drive near Khadakwasla dam in Pune organized by TATA Motors for GETs/PGETs of 2018 batch



Red Ribbon Club

Served as a core committee member of Red Ribbon Club which used to organize blood donation camps in IIT Guwahati