

Akshay Vatharkar

Senior Engineer - CAE

Result oriented mechanical engineer with 5+ years of experience in the field of finite element analysis, multi-body dynamics, NVH and safety for multiple product domains.

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91-9673472281

Pune, India (Open to relocation)

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WORK EXPERIENCE

Senior engineer Eaton technologies

08/2013 – Present

Pune, India

- Perform technical simulations and provide feasible solutions during the product development phase in the fields of structural dynamics, NVH, MBD, crash and safety for aerospace, vehicle, electrical and hydraulic components
- Method Development: Implementation of customer focused CAE tools and best practices. Case studies - Predicting bolt loosening under dynamic loading, PCB behavior under harsh environment conditions and fatigue life prediction (Stress life) under random loading
- Test Data Analysis : Understand vibration testing data and establishing robust models by improving correlation
- Test lab setup : Setting up a test lab for MCCB endurance testing and validating MBD models
- Continuous improvement and automation : Analytical tool development to predict higher order Eigen values for additive manufactured samples under axial fatigue testing
- Publication of two technical papers related to bolt loosening and intelligent boom frame vibration control in the SAE NVH conference 2017
- Filing of two patents related to O-C-O operations of the switch gear mechanisms in Netherlands
- Leading the VG business group activities and innovation activities in the team resulting in 4 patents by the team
- Collaboration with the global and local teams to drive analysis first culture and participating in the technical and customer reviews

Contact: Kunal Teli – 919833658298

CERTIFICATES

Design for six sigma (05/2015 – Present)

Certified with a green belt for demonstrating the process to come up with an optimized solution for number of mounting bolts for a vane pump

EDUCATION

Master of Technology in machine design IIT Madras

05/2011 – 05/2013

8.91

Thesis

- Use of Optimal Control theories to improve ride handling and increase comfort in an automobile based on quarter car and full car models.

SKILLS

Analytical thinking

Finite element analysis

Applied mechanics

Product design

Research and strategy

Mechatronics

Failure theories

Dynamics

Ansys

Hypermesh

ADAMS

MATLAB/Simulink

VOLUNTEER EXPERIENCE

Volunteer

Seva Sahayog organization

03/2016 – Present

Pune, India

ORGANIZATIONS

NVH laboratory at IITM (05/2012 – 05/2013)

Teaching assistant - Responsible to arrange and conduct vibration lab courses for under graduate students

SAEINDIA (08/2015 – Present)

HONOR AWARDS

Employee of the quarter (01/2014 – 03/2014)

Eaton technologies

LANGUAGES

English



Hindi



Marathi



German

