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ABHIMANYU SINGH

SENIOR ENGINEER



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LINKS

LinkedIn:

<https://www.linkedin.com/in/singabh/>

SKILLS

Simulink

Matlab

Akka:Provetech

ETAS:INCA

Vector: Canape, Canoe

Tortoise SVN

Confluence

dSpace HiLs - Configuration Desk,
RTICANMM, Control Desk, Flexray
Configuration Package

Ansys Fluent

Automobile Engineer with over 7 years of experience in Hardware in Loop simulations on dSpace HiLs. My areas of interest include model based development of physical systems, transmission modeling, driver modeling, vehicle dynamics, thermodynamics, heat transfer, fluid mechanics.

WORK EXPERIENCE

Mercedes Benz Research and Development India Private Limited

Apr 2018 - Present
Bangalore

SENIOR ENGINEER

- Primary responsible for the modeling and integration of 8eDCT project on HiL for the new generation of vehicle and network architecture.
- Primary responsible and single point of contact for AMG P3 project coordination, modeling and integration on dSpace HiL systems for powertrain ECUs
- Error analysis and debugging of issues observed in level 2 monitoring tests, FuSi tests and updating the models for improved system behavior, if applicable.
- Modeling and integration of the next generation of 9 speed automatic gearbox (NAG3Mopf) on transmission HiL systems.
- Mentoring new colleagues and constant knowledge sharing in the team, cross collaboration support between India and Germany.

Mercedes Benz Research and Development India Private Limited

Apr 2015 - Apr 2018
Bangalore

ENGINEER

- Flexray model implementation for gearbox, engine and powertrain HiLs for different v-cycles in dSpace scalexio and PHS systems.
- Delivery of models for different car lines and engine variants for Fusi tests for the 9 speed automatic

EDUCATION

MASTER'S DEGREE

**Indian Institute of Technology
Bombay / Mumbai / 2014**

Master of Technology in Thermal and
Fluids Engineering
Masters Thesis on "Flow and heat
transfer in converging, diverging and
spiral microchannels"
CGPA - 9.1 /10

LANGUAGES

English

Hindi

German

HOBBIES

- Tennis
- Cricket
- Running
- Astrophotography

**Mercedes Benz
Research and
Development India
Private Limited**
Jul 2014 - Apr 2015
Bangalore

transmission (NAG3).

- Responsible for the modeling and simulation of 7 speed automatic transmission on HiL systems.
- Development of the 8-speed dual clutch transmission (8DCT) controller.

POST GRADUATE ENGINEER TRAINEE

- Responsible for modeling of driver model with a speed controller to run different drive cycles like NEDC, WLTP, US06 etc on HiL systems by changing accelerator and brake pedals.
- Responsible for the simulated brake controller with cruise control algorithm.
- Responsible for vehicle dynamics modeling.

PUBLICATIONS

**International
Journal of Heat and
Mass Transfer, Vol.
80, pp. 424-438**
Oct 2014

● **CONVECTIVE HEAT TRANSFER IN
DIVERGING AND CONVERGING
MICROCHANNELS**

**Scientific Reports 6,
article no.18230**
Jan 2016

● **A SIMPLE AND NOVEL WAY OF
MAINTAINING CONSTANT WALL
TEMPERATURE IN MICRODEVICES**

**Proceedings of
Indian National
Science Academy 82
No. 2 June Special
Issue, pp. 321-328**
May 2016

● **THREE-DIMENSIONAL NUMERICAL
STUDY OF CONJUGATE HEAT TRANSFER
IN DIVERGING MICROCHANNE**