

ANURAG KAMAL

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About

*A quick learner,
A ,
Team player,
High-spirited, Outgoing,
A Knack for new software,
and **Passion for EV's**.*

Honors

JN Tata Scholar
Fellowship for higher
education of Indians.

Software

Modeling: MATLAB,
COMSOL, Mathematica,
Gazebo, Carsim.

Designing: Catia, Creo,
Solidworks

Languages: Python, R-
Studio, ROS

Controls: dSpace,
CANalyzer, Versastat,
AMESim, MotoHawk

Organizations

*Tau Beta Pi: Engineering
Honors society
Society of Automotive
Engineers*

Research Papers

<http://dx.doi.org/10.4271/2016-28-0113>

<https://doi.org/10.1016/j.proeng.2014.12.221>

Relevant Skillsets

*An aspiring entrepreneur,
a fast learner.*

Education

Masters, Mechanical Engineering, Dec 18, Michigan Tech. University (Houghton, MI), **3.90**
Bachelors, Mechanical Engineering, Apr 14, Birla Institute of Tech, India, **3.71**
Coursework: *Launching Entrepreneurial Ventures*

Professional Experience

Volvo Eicher Commercial Vehicles, India, Jun'14 to Dec'16,

Deputy Manager, Advanced Powertrain Systems

- Awarded as the *Star employee* thrice for an eligibility period of a year.
- Part of the automated manual transmission team since its inception, from prototyping to production.
- Developed skills in CAN, Pro-E, Engine Management & Automated Mechanical Gearboxes.
- Exposed to controls working with *Electronic Control units*, and hardware interfaces.

Projects

Li-ion Modeling for a *Lamborghini Aventador*, Michigan Tech, Jan to Apr'17

- An all-electric twin-motor powertrain that could do the Nürburgring in less than 7 minutes.

Mathematical modeling of electric motors for performace EV, Michigan Tech, Aug to Dec'17

- Using Mathematica for the load modeling and designing inverters and AC motors for <3 secs acceleration.

Swarm behavior of autonomous robots, Michigan Tech, May'17- Dec'17

- Path planning and autonomous navigation of aerial and ground robots in Gazebo.

Leadership Roles

President, SAE Collegiate Club, BIT Mesra, India, Apr'13- Mar'14

- Headed the Society of Automotive engineering club with a membership of around 600 students.
- Led the formula team for a first international participation in the formula student Italy.

Powertrain Lead, Team Firebolt, BIT Mesra, India, Feb'13- Feb'14

- Led the powertrain design for off-road racing event.
- Finished 2nd in 45⁰ Hill-climb with an innovative twin sprocket CVT.

Activities

Controls and powertrain Team, **HEV Enterprise**, Michigan Tech, Jan'17- May'17

- Responsible for the closed loop control strategy for controlling the automated stepper motor for changing the gear shift rail.

Member, **Mind Trekkers**, Michigan Tech, Jan'17- Present

- Taught around 500 children across United States in 4 different events to encourage them towards STEM education.

Entrepreneurial Competitions

- Valeo Innovation Challenge, Lear Innovation Challenge, Rimac Drifting Innovation Challenge