

EDUCATION**Northwestern University, Evanston, IL***Anticipated - June 2017*

Master of Science, Engineering Management, GPA – 3.825

Related Courses: Leadership and Organizational behavior, Finance, Accounting, Marketing, Decision Tools for Managers, Organizing for Innovation, Strategic Management, Managerial Analytics, International Business Strategy (Kellogg)

Vellore Institute of Technology, Vellore, India*June 2011*

Master of Technology - Mechatronics, CGPA – 9.0/10 (Distinction)

University of Pune, Pune, India*June 2009*

Bachelor of Engineering - Mechanical Engineering - 68% (Distinction)

PROFESSIONAL EXPERIENCE**Schaeffler India | Senior Executive, Advanced Vehicle Engineering***January 2015 – August 2016*

- Developed Control algorithm - MBD (Model Based Design) using MATLAB for various innovation projects.
- Implemented Rapid prototyping for Automated Manual Transmission, Electronic Clutch Management system.
- Accomplished component level integration of Automated Manual Transmissions (AMT) for customer (OEM) projects.
- Benchmarked many Automotive systems or subsystems and drafted a business strategy for Schaeffler India.
- Validated different innovative concepts on vehicle. For example, Fuel efficiency improvement concepts like engine decoupling module, Mechatronic Hill-Hold system, Suspension Energy Recuperation system.

Mahindra & Mahindra Ltd. | Deputy Manager, Powertrain Research & Development*August 2011 – December 2014*

- Determined and implemented the changes required in Hybrid Architecture, and in Engine Management System (EMS) of the vehicle, with different stake holders of the Hybrid Sports Utility Vehicle project.
- Discussed and negotiated different tasks to be done by cross functional teams and external consulting agencies.
- Achieved Emission optimization, drive ability, start ability with various calibration activities.
- Conducted several summer and winter altitude expeditions/trials, Governor calibration activities.
- Solved Critical problems and Critical customer grievances.

Honeywell Technology Solutions Lab Pvt. Ltd. | Engineering Intern (Aerospace division)*September 2010 – May 2011***Project: Design of a Torque Motor for Aerospace Applications.**

- Set up design guidelines for Honeywell Torque Motor and prepared a template for design of a Torque Motor.
- Modelled a Torque Motor in Pro/E and Electromagnetic Analysis using MagNET. Then compared the results of MagNET with Hand Calculations to validate the design.

PATENTS:**Patents in the process of filing by Schaeffler AG**

- Dual Friction power-screw used in the special purpose machines and automotive applications.
- Hill-Hold through Mechatronic/Mechanical systems integrated in transmission system.

Innovations under consideration for patent filing by Schaeffler AG

- Purely mechanical sequential and tandem shifters for manual transmissions.
- Suspension Energy Recovery System (SERS) using linear generators.
- Mechatronic type innovative Hill Start Assist (HAS / Hill-Hold) systems. (System and control algorithm)

SKILLS:

Software: INCA (Engine Calibration), MDA (Measured Data Analysis), imc FAMOS (for data analysis and automation of data analysis), MATLAB and Simulink (Data Analysis and simulations), MiniTab (Statistics), Decision Tree -Risk Analysis.

TECHNICAL PAPERS AND PRESENTATIONS:

- **Technical Paper and Presentation:** MATLAB Expo 2016, India.
Title: Novel Method to build real world drive cycles from on-road data.
- **Technical paper:** Symposium of International Automotive Technology (SIAT conference) in January 2017.
Title: Farewell to Clutch Pedal - Automated Manual Transmission

ACADEMIC AND PROFESSIONAL ACHIEVEMENTS, AWARDS AND SCHOLARSHIPS:

- Awarded "Employee of the Quarter (Q2), 2015" at Schaeffler India. (Work helped Schaeffler to build a good market strategy for Indian market).
- Accepted into ThinkChicago 2016, 20th-22nd October 2016. Submitted idea was based on Virtual Reality.
- Co-Vice chair of MEM Student Advisory Board (SAB) at Northwestern University.

EXTRA CURRICULAR ACHIEVEMENTS AND ACTIVITIES:

- Participated in Several trekking expeditions in Himalayas. Highest peak climbed is Bhrgu Lake at 15500 ft.
- Earned a Black-Belt 1st dan Shodan in Okinawa martial arts. (Karate)