

**CETHAN RAMAKRISHNA REDDY (PREFERRED NAME – CETHAN)**

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**OBJECTIVE:** To contribute my skills in an engineering research and product development environment and have a relation of mutual passion and benefit.

## **EDUCATION**

<b>Degree</b>	<b>University</b>	<b>School/College</b>	<b>Specialization</b>	<b>Year</b>	<b>Percentage/Grade</b>
Bachelor of Engineering (BE)	Visvesvaraya Technological University, Belgaum, Karnataka, India	New Horizon College of Engineering, Bangalore, Karnataka, India	Mechanical Engineering	2007-2011	73.18%
Master of Technology (MTech)	National Institute of Technology Karnataka (NITK), Surathkal, India	National Institute of Technology Karnataka (NITK), Surathkal, India	Mechatronics Engineering	2011-2013	8.37 cgpa on a scale of 10
Doctoral Research (Ph.D.)	Michigan Technological University (MTU), USA	Michigan Technological University (MTU), USA	Mechanical Engineering – Engineering Mechanics (ME-EM)	2016-Present	Ongoing

## **ACADEMIC DETAILS**

### **Ph.D. | MTU**

1. Fall 2016 (Aug 2016 – Dec 2016) – on-going – Key courses: Introduction to Propulsion Systems for Hybrid Electric Vehicles, Internal Combustion Engines II, Principles of Energy Conversion.
2. Spring 2017 (Jan 2017 – April 2017) – Planned – Key courses: Advanced Propulsion Systems for Hybrid Electric Vehicles, Engineering Research Communications, Distributed Embedded Controls

### **MTech | NITK**

1. Mini Project: Rotary encoder using 8051 micro controller
2. Practical Training at Robert Bosch Engineering & Business Solutions Private Limited, India (RBEI)
3. MTech project/thesis at Robert Bosch Engineering & Business Solutions Limited, India (RBEI) on Development of Automotive Thermoelectric Generator (ATEG)

### **BE | New Horizon College of Engineering**

- Final semester project: Design and Fabrication of Boundary Layer Turbine as a Potential Automotive engine (Compressed Air as Fuel)

## **WORK EXPERIENCE**

<b>Organization</b>	<b>Duration</b>	<b>Role</b>
Robert Bosch Engineering and Business Solutions Limited (RBEI), Bangalore, Karnataka, India	4 June 2012 to 29 March 2013 – approx. 10 months	Project Intern
Robert Bosch Engineering and Business Solutions Limited, Bangalore, Karnataka, India	19 August 2013 to 30 September 2015	Engineer– Modeling and System Simulation
Robert Bosch Engineering and Business Solutions Limited, Bangalore, Karnataka, India	1 October 2015 to 5 August 2016	Senior Engineer– Modeling and System Simulation

## **WORK DETAILS (Projects Handled)**

- Internship – Model-Based Design (2 months), my master's project work (8 months) and other tasks to assist my team and the organization overall.
- Employee – HIL plant model development, Model based testing, Model based design & calibration, Virtual hardware, Active Noise Cancellation and Enhancement, Bosch Boost Recuperation System (BRS) Simulation, Automobile Waste Heat Recovery using thermoelectric generators

## TECHNICAL SKILLS

1. Modeling/Simulation/Data Analysis in MATLAB/Simulink environment
2. Basic knowledge of Modeling & Simulation in Automobile system simulation tools – GT-SUITE
3. Automobile system understanding (Basic to Intermediate level)
4. Automobile exhaust system acoustics understanding (Basic to Intermediate level)
5. Automotive Embedded Software Development Cycle – Usage of Automated tool chain, eg. ETAS, DSPACE tool chain
6. Basics in Hardware in loop (HiL) testing (Automobile environment)

## CERTIFICATION COURSES

1. Completed a practical and hands on course in Automobile Servicing and Maintenance in G.D. Naidu Charities, Coimbatore
2. Completed a familiarization course in H.A.L. (Hindustan Aeronautics Limited) Aircraft division

## ACHIEVEMENTS

1. Demonstrated ANCE (Active Noise Cancellation and Enhancement) project on a two wheeler and was appreciated by many top level management/technical leads of our organization including the president of our organization (RBEI). Our project ANCE was covered by various media organisations.
2. Took an active part in College fests at both Pre-University and Undergraduate level.
3. Was the school captain in Class X (leading around 300 fellow students).

## LANGUAGES KNOWN

1. English – Business fluent English (Read, write & speak). Cleared TOEFL iBT (May 2015) with a score of 103/120
2. Indian Languages known – Telugu (mother tongue), Kannada, Hindi
3. German (Basic Conversation skills) – 1A qualified

## PUBLICATION

<sup>[1]</sup> Chethan R Reddy, Shrikantha S Rao, Vijay Desai, Karthikeyan Ramachadran – “Modeling of an Automotive ThermoElectric Generator (ATEG).” Volume 2 Issue 5 May 2013 in International Journal of Science and Research (IJSR).  
→ (<http://www.ijsr.net/archive/v2i5/IJSRON2013977.pdf>)

## INTERNATIONAL EXPERIENCE

Had been to Germany for a 2-week business visit to a sister company of our organization to learn/discuss about ANCE (Active Noise Cancellation and Enhancement) project.

## PERSONAL DETAILS

**Date of Birth:** 14 December 1989

**Sex:** Male

**Marital Status:** Single

**Passport:** H5362516 (India)

**US VISA Class:** F1

**Hobbies & Interests:** Swimming, Watches (Mechanical & Automatics)

**Personal Website:** <http://chethanreddy.com/>