

# ABHISHEK SINGH RATHOR

Mechanical Engineering student from IIT Patna seeking job opportunity where I am able to implement my skills and enjoy the work of my interest.

QUALIFICATION	INSTITUTION	YEAR OF PASSING	SCORE
B.Tech	Indian Institute of Technology Patna, Bihar	2016	CPI – 8.16(current)
XII	Kendriya Vidyalaya Mandsaur	2011	93.8%
X	Kendriya Vidyalaya Mandsaur	2009	89.8%

## WORK EXPERIENCE

**Mechanical Engineer, Intern** **EICHER ENGINEERING SOLUTIONS** **Summer 2014**

**Guided By:** Mr.Ranbeer Singh, Project Manager, Eicher Engineering Solutions

Worked on material utilization optimization of mass produced sheet metal components used in automobiles. The work included working on Pro Engineer CAD Software to design the components and minimize the waste.

**Research Intern** **IISc BANGALORE** **Summer 2015**

**Guided By:** Prof. Saptarishi Basu, Prasenjit Kabi(Research Scholar), Multiphase Flow Lab, IISc Bangalore

Studied the fluid flow inside evaporating sessile droplets. The work included experimental flow visualization inside hydrophilic and hydrophobic sessile droplets by the method of micro-PIV and laser illumination, respectively.

## PROJECTS

**SAE BAJA INDIA 2015** **March 2014-February2015**

**Guide:** Dr. Akhilendra Singh, Department of ME, IIT Patna

**Position –Team Captain.**  
Designed the chassis of the All Terrain Vehicle (ATV) in **SOLID WORKS** and performed the loading and impact analysis in **ANSYS**. Fabricated the vehicle leading the team of 24 members using sound engineering and efficient cost reduction methods.

**ASME Human Powered Vehicle Challenge 2014** **November2013-January2014**

**Guide:** Dr. Sawan Suman, Department of ME, IIT Patna  
Designed the breaking system and finalized the tire dimensions and type for better ride of the human powered vehicle. Fabricated the Human Powered Trike along with a team of 11 members and stood **AIR 10** at the competition held at **IIT Delhi**.

**Wireless Controlled Hovercraft** **Fall 2013**

**Guide:** Dr. Atul Thakur, Department of ME, IIT Patna  
Designed and manufactured a small maneuverable hovercraft using **Arduino** and **Bluetooth Shield** for wireless control. Participated in Hover- race robotics event in **Techniche**, Technical Fest at **IIT Guwahati**.

## ACHIEVEMENTS

- **All India Rank 4860 – IIT JEE 2012 .**
- **Rajya –Puraskar –From Bharat Scout & Guides** for the service of God, Country & fellow beings.
- **Merit Certificate From Kendriyala Vidyalaya Sangathan** – for being in top 1.5% of candidates passing SSCE in 2011.
- **Winner, Hydraulic Robotic Arm Competition** – Conducted in first year by SCME Club IIT Patna.

## EXTRA CURRICULAR ACTIVITIES

- **President-SAE (Society of Automotive Engineers) colligate club, IIT Patna.**
- **Student Coordinator –Training and Placement cell, IIT Patna.**
- **Technical Events Organizer (Anwasha, Celesta)** – Hydraulic Arm, Robowarz & **Active Member** of **SCME & SAE Clubs**.
- **Lead Vocalist - College Band-“Half Step Down”.**

## SKILLS

- **Programming Languages:** C, C++,Java.
- **Software Packages:** Solidworks, AutoCAD,Ansys Workbench,Ansys Classic,PTC-creo.
- **Operating Systems:** Windows (XP, 8, 10), LINUX (Ubuntu).