

# NEETESH KUMAR SAH

**B.Tech, Mechanical Engineering,  
Undergraduate (5<sup>th</sup> Semester),  
Indian Institute of Technology  
Patna.**

**Date of Birth:** 04/10/1995

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## Educational Qualification

Year	Level	Institute	CPI/Percentage
2013-17	B.Tech, Mechanical Engineering	IIT Patna	7.23/10
2012	BSEB (12 <sup>th</sup> )	College of Commerce, Patna	72.8%
2010	BSEB (10 <sup>th</sup> )	S. Y. R. High School Reotith, Gopalganj	77%

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## Area of Interests

Automobiles, Thermodynamics, Fluid Mechanics, Solid Mechanics, Aerodynamics.

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## Extra-Curricular Achievements

- Member of Team SUPRA of IIT Patna for SUPRA SAEINDIA-2015.
- Active as volunteer for collegiate clubs such as SAE(Society of Automotive Engineers) and SCME (Student Council of Mechanical Engineering).
- Member of SAE India (Membership No.:7140222778)
- Worked as Organizer of Technical event in ANWESHA-15 (Annual Techno-Cultural Fest of IIT Patna).

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## Academic Achievements

- I have got a scholarship from Government of Bihar for Merit in 10<sup>th</sup> class.

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## Project Undertaken

### ➤ **SUPRA SAEINDIA :**

*Faculty Adviser:* Dr. Manabendra Pathak, Assistant Professor, Department of Mechanical Engineering, IIT Patna.

SUPRA SAEINDIA is the Student Formula Competition Challenge teams of university undergraduate and graduate students to conceive, design, fabricate, develop and compete with small formula style vehicle. The vehicle should have very high performance in terms of acceleration, braking and handling. In SUPRA 2015, I was a part of Team SUPRA IIT Patna and mainly involved in manufacturing process which involved the process of assembling different automobile parts such as steering, suspension and engine. Fabricated a Formula One Race Car and successfully participated in the event SUPRA SAEINDIA-2015 which was held at Madras Motor Race Track (MMRT) Chennai. In SUPRA 2016, being a part of the team in the department of engine and transmission.

➤ **Energy Generation Through Speed Breaker :**

**Guide:** Dr. Probir Saha, Assistant Professor, Department of Mechanical Engineering, IIT Patna.

Designed and Fabricated a mechanism for utilizing speed-breaker to light up the street light. A double sided rack-pinion coupled with counter sprocket to utilize both up and down movement of speed breaker as vehicle passes through it. It was 100% more efficient than the normal single rack based mechanism.

➤ **Hydraulic Arm/Robotics Project :**

Designed and Fabricated a Hydraulic Arm and participated in the event of Celesta(the annual Techno-Management Fest of IIT Patna) and won the event. It basically works on the principal of Pascal's Law. Also participated in Robo-Wars and Aqua-Soccer event in the celesta-2013.

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### Relevant Courses Undertaken

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|-------------------------|------------------------------|----------------------------|
| ➤ Engineering Mechanics | ➤ Advance Solid Mechanics    | ➤ Kinematics of Machinery  |
| ➤ Solid Mechanics       | ➤ Manufacturing Process-1    | ➤ Heat and Mass Transfer   |
| ➤ Thermodynamics        | ➤ Mechanical Measurements    | ➤ Applied Thermodynamics-1 |
| ➤ Fluid Mechanics       | ➤ Design of Machine Elements |                            |
| ➤ Engineering Materials |                              |                            |

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### SKILLS

- **APPLICATION SOFTWARE:** Auto-Cad, Solidworks, Pro-E
- **OPERATING SOFTWARE:** Microsoft Windows 7/XP/vista/8
- **PROGRAMMING LANGUAGES:** C, JAVA, Matlab
- **MACHINERY OPERATIONS:**
  - Rapid Prototyping
  - Laser Cutting
  - WEDM
  - DAQ System
  - Welding & casting
  - Lathe and Milling
  - Different testing operation (UTM, Torsion Testing, Hardness Testing).

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### DECLARATON

I hereby declare the information given above is true to the best of my knowledge, as of September, 2015.

**NEETESH KUMAR SAH**