

Kunal Kanoi  
Mechanical Engineering  
Indian Institute of Technology, Patna  
Online Portfolio - [Kunal Kanoi](#)

B.Tech. Third Year  
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## EDUCATIONAL QUALIFICATIONS:

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- Secured **90.57 %** in Class X Board Examination ( ICSE ) - 2011
- Secured **84 %** in Class XII Board Examination ( CBSE ) - 2013
- Secured **AIR 5084** in JEE Advanced 2013 amongst top 1.5 lakh students - 2013
- Secured **7.64 CPI** at Indian Institute of Technology, Patna - 2013 - 17

## TECHNICAL SKILLS:

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- Proficiency in CATIA, AutoCAD, MATLAB.
- Knowledge of Java, C, Microsoft Excel, Microsoft Word.

## EXPERIENCE:

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- **Research Intern at Indian Institute of Technology(BHU), Varanasi : (May –June 2015)**
  - Title: Study of Tar Reduction in Producer Gas in Downdraft Gasifier System.
  - Guide: **Dr. S.K.Shukla**, Department of Mechanical Engineering, **IIT BHU**.
  - Designed a model which increases the gas residence time and interaction of the catalyst with the producer gas.
  - The effect of 10 wt% CaO on the tar reduction in the producer gas was studied.

## PROJECTS UNDERTAKEN:

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1. **All Terrain Vehicle(SAE INDIA BAJA 2015) –**
  - Guide: **Dr. Akhilendra Singh, Dr. Mayank Tiwari** Department of **Mechanical Engineering, IIT Patna**.
  - Cleared the Virtual Round of **BAJA SAE 2015**. Gained lots of hand on experience working in team to fully fabricate and test the vehicle.
2. **All Terrain Vehicle(SAE INDIA BAJA 2016) –**
  - Designed the chassis of the vehicle using cad modeling and performed the loading and impact analysis in ANSYS to get the most optimum design in terms of weight and strength.
3. **Energy Generation through speed breaker–**
  - We designed a practical model which converted upward and downward vertical motion of the speed breaker into uniform continuous circular motion which was used to drive the shaft of the generator.
  - The model was made out of sprocket, gears, and shafts.

## TECHNICAL ACTIVITIES AND POSITIONS OF RESPONSIBILITY:

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- Participated in Breakout event at **Techniche 14** (Technical fest of IIT Guwahati).
- Organized **Capture the Flag** (Online Hacking event) at **ANWESHA2K14**.
- Organized **Death Race** (Robotic event) at **ANWESHA2K15**.
- Sub-Coordinator of Gaming Club at **ANWESHA2K14**.

## AREAS OF INTEREST:

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- Automobiles.
- Renewable Energy.
- Rural Technology.