Arpit Agrawal

UG Third Year, Mechanical Engineering (B.Tech)
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Objective

To acquire & enhance my technical skills in accordance to the growing need of industry and familiarize myself with professional challenges, by virtue of an internship.

Educational Qualification

Education Details	Board/ University	Institution	CPI / %	Year
Under-Graduate (B.Tech in Mechanical Engineering)	N/A	Indian Institute of Technology Patna	7.74/10	2017*
Intermediate (+2)	CBSE	Happy Days School, Shivpuri	91.6%	2013
Matriculation	CBSE	Happy Days School, Shivpuri	9.0/10	2011

***** *expected graduation date*

Honors and Achievement

- Secured All India Rank-4484 in IIT-JEE-2013.
- Participated in HPVC (human powered vehicle challenge) organized by ASME and secured 5th rank in design event.
- Secured first rank in death race and wall-e competition organized in CELESTA (Technical fest of IIT PATNA).
- Secured first rank in "Hit me if you can" organized in ANWESHA (Techno-cultural fest) in mechanical department.

Projects undertaken

- **Supra SAE India 2016** **Ongoing Project**
  - **Guide :** Asst. Prof. Dr. Manabendra Pathak
  - Designing Formula One Racing car.
  - Working in **Suspension department**. Designing the whole suspension system on Solid Works and testing on Adams and Ansys software.
- **Automatic side stand retrieval system** **[Jan 2015 – Apr 2015]**
  - **Guide:** Dr. S.S. Panda
  - Designed the model and did simulation using Pro-E.
  - Successfully built the Prototype using different manufacturing processes like arc welding, lathe, grinding etc.
- **Designing human powered vehicle** **[September 2014 – January 2015]**
  - Guide : Asst. Prof Dr. Atul Thakur
  - Designed the short wheel base recumbent bicycle for better comfort and good manual handling.
  - Worked in the Steering Department and designed over seat steering system for the vehicle.
- **Demonstration of working principle of different types of pressure sensors.** **[Nov 2014]**
  - **Guide :** Dr. Manabendra Pathak
  - Demonstrated working principle of different types of pressure sensors and their applications.
- **Hydraulic arm** **[Sep 2013]**
  - Fabricated mechanically controlled hydraulic arm having four degrees of freedom.

Technical Skills

- Programming Language: Acquainted with C, JAVA.
- Application Software: PRO E, ANSYS, MATLAB, Solidworks, AutoCAD,Catia.
- General Software: - MS Office, Photoshop.
- Operating System: Windows, Linux.
- Have a basic overview of machines like CNC Lathe, CNC Milling, Wire EDM ,Ultrasonic Milling ,Laser Cutting Machine ,Universal Testing Machine, Rapid Prototyping ,Tool cutting and Grinding Machines.

Extra- Curricular activities

- Organized "Carte-Blanche" under SAE club at IIT Patna in CELESTA-2014.
- Member of **Society of Automotive Engineer** (SAE) and worked on designing of a FORMULA Car for the event SUPRA, SAEINDIA.