



OM PRAKASH SAHU

B-tech 3rd year
Department Of Mechanical Engineering
INDIAN INSTITUTE OF TECHNOLOGY, PATNA
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OBJECTIVE

Seeking an industrial internship for application of my knowledge and technical skills and their continuous improvement.

UNDER GRADUATION :- INDIAN INSTITUTE OF TECHNOLOGY PATNA

DEGREE	DEPARTMENT	CGPA	DURATION
B-TECH	MECHANICAL ENGINEERING	6.97/10 (UPTO 4 TH SEM.)	2013-2015

SCHOOLING :- CHAITANYA VIDYAPITH DONGARGOAN(CHATTISGARH)

CLASS	PERCENTAGE	BATCH RANK	YEAR OF PASSING	STATE/BOARD
X	93.33	1 st	2010	CG BOARD
XII	93.66	1 st	2013	CG BOARD

MAJOR INTEREST

- Machine Design: Theory and application (CAD: Computer aided design)
- HVAC Systems
- Advanced Manufacturing processes

SKILLS AND EXPERTISE

- Design software: CATIA, SOLIDWORKS, ANSYS, ADAMS, AUTOCAD, PRO-E
- PROGRAMMING LANGUAGE: C, JAVA, MATLAB
- Others: MS Office

ACADEMIC PROJECTS UNDERTAKEN

1. SAE BAJA INDIA 2016 (All-Terrain Vehicle) 2015-Present

Guide: Dr. Somnath Roy, Department of Mechanical Engineering, IIT Patna

- Designed the chassis of the All-Terrain Vehicle (ATV) in SOLIDWORKS and performed the loading and impact analysis in ANSYS.
- One of the five members who represented IIT Patna in SAE Baja virtual round in Chandigarh.
- Cleared the Virtual Round of SAE BAJA 2015 being the only team from Bihar.

2. SUPRA SAE INDIA 2016 ONGOING

Guide: Dr. Manabendra Pathak, Department of Mechanical Engineering, IIT Patna

- Designing "F1 car" for SUPRA, an event organized by SAE INDIA.
- Working in department of chassis.

3. ASME HPVC INDIA 2015 2014-2015

Guide: Dr. Atul Thakur, Department of Mechanical Engineering, IIT Patna

- The American Society of Mechanical Engineers (ASME) organized the second Indian Human Powered Vehicle Challenge (HPVC- India), 2015 where we designed and manufactured a Semi-Recumbent Bike with overall achievement of 42 kmph speed at top gear.
- Worked in transmission and breaking system for recumbent bicycle .Got all India 5th rank in design.

4. ROBOTIC ARM 2014-2015

Guide: Dr. Atul Thakur, Department of Mechanical Engineering, IIT Patna

- Designed and manufactured a four servo bot using Arduino, servo motor and Bluetooth Shield, for wireless communication.
- Learned laser cutting machine, RP machine, microcontroller, servo motor, and their control system.
- Participated in Bot Builder event in Anwesha 15 and Got 1st rank in this event.

5. AUTOMATIC SIDE STAND RETRIVAL SYSTEM Jan-April 2015

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

- Designed the modified side stand for motor cycle, which can automatically retrieve when motor cycle starts.
- Designed CAD model and simulated it in CATIA and conducted FEA analysis in ANSYS.
- Fabricated it by applying manufacturing and machining processes like **MIG welding, cutting , CNC Lath, Wire EDM, CNC Milling machine.**

6. LINE FOLLOWER

2014-2015

- Designed and fabricated **Line follower bot** using **Arduino, Photo sensor, IR sensor** which can follow a black line.
- Participated in **line follower** event in **Anwasha 14** and Got **3rd** rank in this event.
- Learned basics about sensors, dc motor, and electronic circuit.

POSITIONS OF RESPONSIBILITY

- **Project Manager** at **RTDC** (Rural Technology Development Club) of IIT Patna. (2015 – Present)
- Mentor at annual technical fest Celesta 2014 at IIT Patna. (2014)
- Environment secretary at Student Gymkhana of IIT Patna. (2014- 2015)
- Organizer of Technical Events **AQUA SOCCER** in Anwasha 15 at IIT PATNA. (Feb 2015)
- **HEAD-BOY** of School. (2011- 2012)

ACHIEVEMENTS

- Secured **9th rank** in Chhattisgarh Board Higher Secondary Exam and awarded by **The Governor of Chhattisgarh.**
- Qualified the prestigious **IIT-JOINT ENTRANCE EXAM** in **2013.**
- Secured **AIR-3760** in **Jee-mains** exam in 2013.