

Mohammad Hussain

4th year , BTech

Department of Mechanical Engineering

Indian Institute of Technology Patna

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Academic Qualification

Bachelor of Technology(Final year)

Degree	Department	CGPA	Duration
BTech	Mechanical Engineering	7.32	2012-2016

Work Experience

Summer Intern | TATA Steel- Pellet Plant , Jamshedpur

April 2015-May 2015

Mentor: Mr. Kalyan Prasad , Senior Manager Pellet Plant, Tata Steel

- ✓ Successfully completed project on “Detailed study of GPB area and rectification and suggestions for major concerns of GPB area”.
- ✓ Analyzed the GPB circuit and pointed out the major causes of delay and production loss.
- ✓ Finally suggested the optimistic solution reducing **85hrs (per year) of production loss**, which is under discussion and could be implemented in the major shut down of the plant in Nov-15.

Projects

SAE Supra 2015-Formula One Racing Car Designing National Inter College Competition

Oct.2014-July 2015

Mentor: Dr. Manabendra Pathak, Department of ME, IIT Patna

- ✓ Designed the chain differential and Bending and Torsional analysis on the rear axle.
- ✓ Ranked 54th among 150+ teams from India in the Virtual Round (Qualifier) in the first time, where the plan to design the car was demonstrated.
- ✓ Successfully manufactured the vehicle and participated in the event.

Rotating Fixture for Wire EDM Machine

April 2014-May 2014

Mentor: Dr Probir Saha, Department of ME, IIT Patna

- ✓ Designed a rotating fixture for Wire EDM Machine Solidworks.
- ✓ The fixture was capable of rotating the workpiece and therefore allow Non-Conventional machining in more than one plane simultaneously.
- ✓ Fixture is manufactured and installed in Mechanical engineering Laboratory.

Human Powered Foot steered Tricycle

Feb.2014-March 2014

Mentor: Dr S.S Panda, Department of ME, IIT Patna

- ✓ Designed a tricycle which is human powered and foot steered.
- ✓ Modelled the vehicle in Solidworks.

Radio Controlled Air Cushion Vehicle

October 2013

Guided by: Atul Thakur, Department of ME, IIT Patna

- ✓ Designed a prototype and programmed by Arduino and controlled by microcontroller ATmega8.

Technical Skills

CAD/CAM AutoCAD, Creo/ PRO-E, Solid Works

Analysis Software :- ANSYS Fluent

DAQ :- Flowex, LabView.

Programming Language:- C, Java(OOP), Matlab

Positions of Responsibility

Technical Coordinator |ANWESHA'15

- ✓ Spearheaded the Technical department of the annual festival ‘Anwesha’ of IIT Patna.
- ✓ Leading a team of over **300 students, 8 departments** and 21 events.

Head of Engine and Transmission |SAE Supra 2015

- ✓ the Engine and Transmission department in SAE Supra 2015 at IIT Patna
- ✓ Among the **5 selected members** of team to present onstage in the virtual Supra round.

Event Organizer ANWESHA'14

- ✓ Initiated and Organized ‘Aquasoccer’ main Technical event of Anwesha'14.
- ✓ One of the **most successful** Technical event of all time.

Extra-Curricular Activities

- ✓ Secured an **AIR 4837** in IIT JEE 2012.
- ✓ Participated and secured **1st position in ‘Hydraulic arm’** (i.e. inter college competition).
- ✓ Active member of the Student Council of Mechanical Engineering(SCME) club , IIT Patna.