



## AVISHEK KUMAR GUPTA

B.Tech, 4<sup>th</sup> Year

Department of Mechanical Engineering

Indian Institute of Technology Patna.

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### EDUCATIONAL QUALIFICATIONS

Qualification	Year of Passing	Institute	Board/University	Aggregate
B. Tech Mechanical	2012-2016	Indian Institute of Technology, Patna	Indian Institute of Technology, Patna	7.87/10 CGPA
XII	2011	SHIKSHANTER	CBSE	82.4%
X	2009	DON BOSCO	ICSE	93.4%

### WORK EXPERIENCE

#### Summer Intern: CSIR-CMERI, DURGAPUR.

2015

Underwent a two month research internship in Surface Engineering and Tribology Department at CMERI. Worked on the Rheological behaviour of lubricating fluids used in hot forging. Tried to develop properties of a lubricating agent using nanofluid that would provide better load carrying capacity, viscosity-temperature, stress-strain, environmental friendly and more economical behaviour under the guidance of Dr. N. C. Murmu.

#### Summer Intern: RIFLE FACTORY, ISHAPORE - Ordinance Factory Board Kolkata.

2014

Successfully completed an industrial training program in manufacturing processes of 5.56mm INSAS rifles, 0.22 SR and 9mm Pistol under the mentorship of Mr. M. Biswas.

Learnt about various machines like Cold Swage, Honing, Deep Hole Drilling and Wire EDM.

### INTEREST AREAS

Thermodynamics: Vapour Cycles, Air Conditioning, I.C. Engines.

Manufacturing Technology: Manufacturing Processes, Machining.

### ACADEMIC PROJECTS UNDERTAKEN

#### 4<sup>th</sup> year B.Tech. Project | Crack Analysis in a Metal Strip.

2015-2016

Working under Dr. Akhilendra Singh in the field of Finite Element Analysis. Aims to understand crack propagating rate in a body part of a moving vehicle thus determining its life using Ansys.

#### 3<sup>rd</sup> year project | BAJA SAE.

2014-2015

Successfully participated in the final round as a member of BAJA SAE IIT PATNA team which aimed to fabricate an off-road ATV car. I was working on Engine and Transmission system. This project involved acquiring, assembly, calculations and working of the power train system.

#### 2<sup>nd</sup> year project | Fabricated a Manal Rice Transplanter.

2014

Using several manufacturing machines available in the institute manufactured a Manual Driven Rice Transplanter under the guidance of Dr. Probir Saha.

#### 1<sup>st</sup> year project | Designed a Hydraulic Arm, Motion Sensor Bot.

2013

### TECHNICAL UNDERSTANDING

#### Familiarity with machines.

CNC milling and lathe, Laser Cutting Machine, Ultra Sonic Machine and Welding Machines.

#### Software Proficiency.

Machine designing software- Ansys, SolidWorks, and AutoCAD.

Programming Skills- C, C++, JAVA, MATLAB.

### LEADERSHIP AND POSITION OF AUTHORITY

#### Core Committee Member Anwesha : IIT Patna.

2014-2015

#### Organizing Committee Member Anwesha : IIT Patna.

2013-2014

Anwesha is IIT Patna's annual 3-day techno-cultural festival organised by the student community. I was the head of the Registration Desk.

### EXTRACURRICULAR ACTIVITIES

Member of Rural Technology Development Club & SCME Club at IIT Patna.

2012-2015

Participated in Robotics competition at IIT Patna.

2012-2013

Stood 2<sup>nd</sup> in an event in Celesta at IIT Patna.

2012