

JAI PRAKASH GAUTAM

**FOURTH YEAR,
BACHELOR OF TECHNOLOGY (B. TECH),
INDIAN INSTITUTE OF TECHNOLOGY,
PATNA, INDIA.**

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EDUCATION:

Mechanical Engineering (Current CPI: 9.08) – Third Highest

July 2012 – Ongoing

Semester	I	II	III	IV	V	VI
SPI	8.61	8.73	9.26	9.31	9.54	8.98
CPI	8.61	8.67	8.86	8.98	9.10	9.08

- ❖ Ranked **First** in the **Department of Mechanical Engineering** of **IIT Patna** in the **fifth semester**.
- ❖ Ranked **Second** in the **Department of Mechanical Engineering** of **IIT Patna** in the **fourth semester**.
- ❖ Ranked **Third** in the **Department of Mechanical Engineering** of **IIT Patna** in the **third and sixth semester**.
- ❖ Jawaharlal Nehru School, BHEL, Bhopal: AISSCE(XIIth) - 87.8% and AISSE(Xth) - CGPA: 9.6.

AWARDS:

- ❖ **STATE RANK - RACE FOR AWARENESS AND KNOWLEDGE AWARD:** 2008-09
 - **Awarded By:** AIR INDIA
 - **Description:** Awarded for the state of **Madhya Pradesh, India** to recognize and support the move **Towards Responsible & Active Citizenship and Preserving a Crumbling Environment**.
<http://rankandboltawards.blogspot.in/2008/10/madhya-pradesh-winners-list-2008-2009.html>
- ❖ **DISTRICT RANK - RACE FOR AWARENESS AND KNOWLEDGE AWARD:** 2008-09
 - **Awarded By:** AIR INDIA
 - **Description:** Awarded for district of **Bhopal, Madhya Pradesh, India** to recognize and support the move **Towards Responsible & Active Citizenship and Preserving a Crumbling Environment**.
<http://rankandboltawards.blogspot.in/2008/10/madhya-pradesh-winners-list-2008-2009.html>

SKILLS AND EXPERTISE:

- ❖ Proficiency in **MS Word and MS PowerPoint** with adequate **Presentation and Communication Skills**.
- ❖ Proficiency in **AUTOCAD (Both 2-D and 3-D), ProE, SOLIDWORKS and ANSYS**.
- ❖ Proficiency in **Programming Languages: C, Matlab, Java, Python(2.7)**.

SCIENTIFIC TRIPS ATTENDED:

- ❖ **Ambassadorial Visit to Singapore:** October 15 to 20, 2008
 - **Organized By:** Air India
 - **Description:** Member of the **National team** of Students and Teachers on an **Ambassadorial Visit to Singapore** to seek ideas to promote: **Towards Responsible & active Citizenship and Preserving a Crumbling Environment**.
- ❖ **Vigyan Manthan – Mission Excellence Program:** January - February 2008
 - **Organized By:** M.P. Council of Science & Technology, Bhopal, Madhya Pradesh, India
 - **Description:** Member of the **State team** of **Madhya Pradesh, India** of Students and Teachers on a visit to **R & D institutions** of **Pune, Bangalore & Kanyakumari, India**.

POSITIONS OF RESPONSIBILITY HELD:

- ❖ **Technical Coordinator and Manager** at Annual Techno-Cultural Fest **Anwesh** – 2013 at **IIT Patna**.
- ❖ **Technical Head** of Student's Council of **Mechanical Engineering Club** at **IIT Patna**.
- ❖ **Mentor** at Annual Technical Fest **Celesta-2013** at **Indian Institute of Technology Patna**.

PROJECTS AND INTERSHIPS:

- ❖ **Supra - Formula One Car Designing National Competition:** 2014 - 2015
 - **Guided By:** Prof. Manabendra Pathak
 - **Institution:** Indian Institute of Technology Patna

- **Description:** Head of Transmission and Chassis of “Team Supra IIT Patna”. The team participated in Supra - Formula One Racing Car Designing National Inter College Competition conducted by SAE INDIA. The group was ranked 21st in the Virtual Round in 2014 and 54th in 2015. The team took part in the final round of SAE Supra 2015.
- ❖ **Aircraft Anti-Icing Systems: Design and Modelling:** May-July 2015
 - **Guided By:** Prof. Vinod Srinivasan
 - **Institution:** Indian Institute of Sciences Bangalore
 - **Problem Proposed By:** Gas Turbine Research Establishment, Defence Research and Development Organization Lab, Bangalore
 - **Description:** An analytical model was developed for conventional anti-icing system in aircraft engine nose cone. The model inculcated fluidic turbulent boundary layer and thermal turbulent boundary layer calculations on both internal and external part of the engine nose cone. Several other designs were suggested for further improvement of anti-icing systems.
- ❖ **Serum separation through Microfluidic Paper Based Device (μPAD):** June 2014
 - **Guided By:** Prof. Suman Chakraborty and Prof. Tapas K. Maity
 - **Institution:** Indian Institute of Technology Kharagpur
 - **Description:** A new, unique and innovative Lab-on-a-chip device was developed for point-of-care diagnosis, offering an efficient means of separation of serum from whole blood for colorimetric analysis.
- ❖ **Modelling of Human Legged Walk with Inverted Pendulum:** December 2013
 - **Guided By:** Prof. Anindya Sundar Das
 - **Institution:** Indian Institute of Technology Patna
 - **Description:** Analysis of motion of human legs, modeled by Inverted Pendulum and Pads.
- ❖ **Rotating Fixture for Wire-EDM:** April - May 2014
 - **Guided By:** Prof. P. Saha and Prof. Panda
 - **Institution:** Indian Institute of Technology Patna
 - **Description:** Conventional Wire-EDMs come with workbench moving in 2-D plane with movements in u-v axis. A fixture was developed to rotate the work piece along its axis to facilitate the machining in two different planes.

ONLINE COURSES:

- ❖ **6.002x Circuits and Electronics:**
 - **Instructor:** Prof. Ananth Agarwal
 - **Institute:** Massachusetts Institute of Technology through edX(<http://www.edx.org>).
 - The certification can be verified at:
<https://verify.edx.org/cert/7e55334fef4d45e9b7cced610cf49ef7>.
- ❖ **6.00x Introduction to Computer Science and Programming:**
 - **Instructor:** Prof. John V. Guttag and Prof. Eric Grimson
 - **Institute:** Massachusetts Institute of Technology through edX(<http://www.edx.org>).
 - The certification can be verified at:
<https://verify.edx.org/cert/c57fc697b37d43afafe15219b630180e>.

ACHIEVEMENTS:

- ❖ Qualified prestigious IIT-JOINT ENTRANCE EXAM in 2012 with an All India National Rank of 4746 from around 10 Lakh students appearing in the exam.
- ❖ **Coordinator of Technical Team of Anwesha – 2014** held at Indian Institute of Technology, Patna.
- ❖ Won IIIrd Prize at **Regional Mahindra AutoQuiz – 2013** at Indian Institute of Technology, Patna.
- ❖ Several Innovations accepted for the **Sixth National Biennial competition of National Innovation Foundation, India.**
- ❖ Won IIIrd Prize in Death Race – All-Terrain Vehicle Designing and Racing Competition in Celesta held at Indian Institute of Technology, Patna - 2013.
- ❖ Attended Image Processing Workshop by I3 India Technologies during Celesta (September - 2012) – The Technical Fest of IIT Patna at Indian Institute of Technology, Patna.