



Arpit Goyal

UG Third Year, Chemical Science and technology (B.Tech)

Indian Institute of Technology Patna

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EDUCATIONAL QUALIFICATIONS

Education Details	Board/ University	Institution	CPI / %	Year
Under-Graduate (B.Tech in Chem. Sc. & Tech.)	N/A	Indian Institute of Technology Patna	8.15 / 10	2017*
Intermediate (+2)	CBSE	Blue Bells Model School	90.4%	2013
Matriculation	CBSE	Blue Bells Model School	9.8/10	2011

* expected graduation date

ACADEMIC PROJECTS

- ✚ **A project on demonstration of different non Newtonian fluid.** [Nov 2014]
On the application of shear thickening non newtonian fluid in dumping devices.
- ✚ **Designing electrolytic cell to produce hydrogen gas using solar energy as the means of the source of energy** [May 2015- June 2015]
 - Intern **at Reinwo Labs** in Kochi, Kerala, India.
 - On selecting appropriate **membrane** by taking care of property and cost of material.
 - Produce detailed report on the functioning of whole stack.
 - Built the simulating model of its functioning in **Matlab**.
- ✚ **Designing human powered vehicle** [Sep 2014-Jan 2015]
 - Making of chassis design using **solidworks**.
 - A detailed analysis of vertical and horizontal forces over chassis for strain limit using **Ansys**.
- ✚ **Project under Rural Technology Development Club of IIT Patna** (Ongoing project)
Development of Water Quality Measurement Device
- ✚ **Robowars** [Jan 2014]
 - Made a robot with cutter and roller as weapon on extreme sides.
- ✚ **Hydraulic arm** [Sep 2013]
 - Fabricated mechanically controlled hydraulic arm having four degree of freedom using Pascal's law to lift small weight.

TECHNICAL SKILLS

- INSTRUMENTS WORKED ON: UV & Visible Spectrophotometer, Fourier Transform IR, Simultaneous DTA – TGA instrument (SDT), pH & conductivity meter, rotary evaporator, Ball Mill.
- Highly acquainted with JAVA and C.
- Cleared two levels in TCS computer languages coding competition in Java in 2014.
- Application software: Solidworks, Aspain, ChemCAD, AutoCAD, Matlab, Ansys Fluent.
- Operating system: Windows, Linux.
- General Software: MSOffice, Photoshop.

SCHOLASTIC ACHIEVEMENTS

- Secured All India Rank-5215 in IIT-JEE-2013.
- Second topper of current batch in B.Tech in Chemical Science and Technology in IIT Patna.
- Cleared Sainik school exam in class 8th.
- Cleared KVPY (Kishore Vaigyanik Protsahan Yojana) in year 2012 in class 12.
- Participated in HPVC (human powered vehicle challenge) organized by ASME and secured 5th rank in design event.

POSITION OF RESPONSIBILITY

- Coordinate chemical activities in Anwasha 2015, Annual Techno-cultural Fest of IIT PATNA
- Founder and organizer of ThC club (chemical club of IIT PATNA).
- Coordinator of NSS club of chemical Engineering department of IIT PATNA.