

# karan jakhar

junior year undergrad | mechanical engineering | iit patna

## address

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## web git

karanjakhar.com  
git - jakharkaran

## technical skills

Linux, Unix  
Latex  
Autocad, Catia  
ANSYS, Adams

## programming

Python  
C, C++, Java,  
MATLAB

## languages

English | Fluent  
Hindi | Native

## experience

- Since 07/15 **Spline based modelling of droplets on patterned surfaces** B.Tech Project  
Mentor: Dr. Rishi Raj  
Developing a geometric algorithm that would enable to simulate the evolution of the three dimensional water droplet on patterned surfaces.
- 05/15 - 07/15 **Defence Research & Development Organisation** Reasearch Internship  
Defence Lab Jodhpur, Federal Lab of Government of India  
Determined suitable fluid to provide heat for solar adsorbtion refrigeration system with water as working fluid and zeolite as adsorbent by solar heating of the fluid.
- 06/15 - 08/15 **Mahindra Renault Limited** Summer Internship  
Researched and analysed on the scope of future of automotive manufacturing technology and compiled a technical report.
- Since 08/15 **jethrofloйд - startup** funding: Indian Angel Network  
Head of Technical Operations  
A clothing platform trying to disrupt the way the world shops online for clothes by using disruptive technologies that allow the world to try out their clothes virtually before buying.  
Responsible for development of a virtual trial room.
- Since 10/14 **Fingerprint AP** seed funded start-up: WizMantra  
Technical Moderator  
Development of lightweight, robust and cheap fingerprint identification module for remote area development.
- 04/15 - 06/15 **SAEINDIA-BAJA** Engine and Transmission  
Modelled a transmission for the all-terrain vehicle using continuously variable transmission (CVT).
- 08/14 - 02/15 **Mechanical Model for Irrigation** Rural Technology Development Club  
Developed a Mechanical Model for farmers to irrigate from artificial and natural water channels with water level below ground.

## scholastic achievements

**All India Rank 6, International Earth Science Olympiad**  
IESO is organised by International Geoscience Educational Organization.  
Attended training camp at Hyderabad hosted by Geological Society of India).

## education

2013-2017	<b>B.Tech. UG</b> Candidate in Mechanical Engineering <i>Semester VI, Indian Institute of Technology, Patna</i>	Aggregate 7.24/10.00
	<b>Relevant Coursework</b> <i>ANU-ASTRO1x</i> Greatest Unsolved Mysteries of the Universe <i>ANU-ASTRO2x</i> Exploring Exoplanets <i>ANU-ASTRO3x</i> The Violent Universe <i>ANU-ASTRO4x</i> Cosmology	edX
2013	<b>Higher Secondary Studies</b> <i>MDS Public School, Udaipur</i>	89.2%
2011	<b>Secondary Studies</b> <i>Kendriya Vidyalaya No.1, Udaipur</i>	10.00/10.00

## positions of responsibility

2015	<b>Coordinator, Industrial Relations</b> <i>Entrepreneurship Club, IIT Patna</i> Responsible for building an incubation centre for startups and building a panel of mentors and investors, encouraging and building an entrepreneurial mind-set in campus through various events, workshops, interactive sessions with industry leaders and maintaining a webzine in focus with this area.
2015	<b>Sub-Coordinator, Media and Public Relations</b> <i>Anwesha 2015 (Techno-Cultural Fest of IIT Patna)</i> Responsible for managing the exposure of fest with an outreach of more than 20,000 people in institutions all over the country. Coordinating with media.
2013-2014	<b>Goalkeeper, Football</b> <i>49th &amp; 50th Inter IIT Sports Meet</i> Defended our team against the best of the country.
2013-2015	<b>Secretary - General, Technical, Students' Gymkhana IIT Patna</b> <i>Sophomore year, Freshman year</i>