

Harsh Gupta

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Permanent Address

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Education	Qualification	Institute	Score	Duration
	B.Tech	IIT Mandi, Himachal Pradesh	8.83/10	<i>Aug 2014 - present</i>
	Class XII	Greenway Modern School, Delhi	92.2%	<i>Apr 2012 - Mar 2013</i>
	Class X	Greenway Modern School, Delhi	9.8/10	<i>Apr 2010 - Mar 2011</i>

Interests Competitive Programming, Algorithms and Data Structures, Interactive Programming, Data Analysis and Machine Learning

Relevant Courses Taken Pattern Recognition, Computation For Engineers, Applied Database Practicum, Intro to Descriptive and Inferential Statistics, Intro to Machine Learning, Mathematical Foundation of Computer Science, Advanced Algorithms and Data Structures

Computer Skills
Languages: C++, C, Python
Software: MySQL, Git, Excel, NaturalDocs
Libraries: STL, SimpleGUICS2Pygame, Pandas, Numpy
Web Design: Basic HTML, Basic CSS, Basic Javascript

Prizes & Honors

- Represented IIT Mandi from Team CatChronicles, Rank 36, at the ACM-ICPC Kolkata Regionals, 2015
- Represented IIT Mandi from Team CatChronicles, Rank 49 at the ACM-ICPC Chennai Regionals, 2015
- Awarded 2nd prize, CodeCuff, Inter year competitive coding competition, IIT Mandi
- Awarded 3rd prize, Code War, organized by Programming Club IIT Mandi
- All India Rank 12, June Mayhem, an online coding competition, Hackerearth 2015
- Won Gold in Chess at Rann (Inter House Sports Tournament), IIT Mandi 2015

Projects **Smart Power Room** *Mar-May 2016*

- Designed and developed a device to generate electricity from solar, mechanical rotatory and piezo energy
- Researched new ways of generating electricity by analysing pre-existing technology, utilized energy storage by constructing electrical circuit for optimal current output
- Supervised 5 other members in a team by assigning them task based on their skills. Administered and assisted the execution of work till completion of the project

Institute Transport Portal *Oct-Nov 2015*

- Designed a website that can help the user to see the bus schedule and book van inside IIT Mandi
- Used python based web framework Django

RiceRocks (Asteroid) *Jun-Jul 2015*

- Developed a game similar to classic arcade style asteroid game
- Implemented different graphical user interface for it using python library SimpleGUICS2Pygame

Line Follower Robot *Apr-May 2015*

- Created a Robot which will detect and only follow a line of black colour
- Coded its functionality and tested the coordination of sensors with the code

Extra Curricular Activities

- Participated in 100+ contests on various programming sites
- Instructed set of competitive programming skills to IIT Mandi first year students to develop coding environment of the college
- Volunteered as Teaching Assistant for the course on Data Structures and Algorithms
- Vice Chair at ACM Student Chapter, IIT Mandi
- Member, Programming Club (IIT Mandi)
- Member, Association for Computing Machinery (ACM)