



mechanicalcoder.github.io

+91-9494826729

linkedin.com/in/chandansinha1

github.com/MechanicalCoder

mechandansinha.github.io

quora.com/chandan-sinha-8

### KEY SCHOLASTIC ACHIEVEMENTS

### INTERNSHIP EXPERIENCE

Product Designer

Creative Writer

Bibliophile

### PROJECTS UNDERTAKEN

- Academic
- Non-Academic

### Computer Proficiency

OS - LINUX, Windows

</> Programming Languages

C

C++

Python

Java

Web Programming -  
HTML5, CSS3, JavaScript  
NodeJS, AngularJS, PHP

Simulation Softwares -  
SolidWorks, SolidEdge,  
ANSYS APDL & Workbench  
FLUENT, ICEM CFD,  
MATLAB, Arduino

Database Familiarity -  
MySQL  
PostgreSQL  
phpMyAdmin

LATEX Git

### POSITIONS OF RESPONSIBILITY

### AWARDS & ACHIEVEMENTS

Regular Quizzer

Cinematographer



**CHANDAN KUMAR SINHA**  
Mechanical & Aerospace Engineering (Hons.)  
Indian Institute of Technology, Hyderabad  
Email- me13b1009[at]iith.ac.in

ME13B1009  
Final Year Undergraduate  
Male  
DOB: 15.03.1996

Examination	University	School/Institute	Year	CPI / %
Undergraduation	IIT Hyderabad	IIT Hyderabad	2017 (expected)	8.1/10
Intermediate	CBSE	D.A.V Public School, Koylanagar	2013	96.2
Matriculation	CBSE	D.A.V. Model School, CFRI	2011	10/10

- Recipient of Institute Free Scholarship (IFS)
  - Awarded top grades in all the lab courses and project works so far
  - **All India Rank 2899** in JEE-Advanced 2013 among 0.15 million candidates
  - **All India Rank 919** in JEE-Mains among 1.4 million candidates
  - **National Rank 155** & School Rank 1 in 15<sup>th</sup> National Science Olympiad, 2013
  - **International Rank under 250** & School Rank 1 in 5<sup>th</sup> & 6<sup>th</sup> International Mathematics Olympiad
- **Center for Healthcare Entrepreneurship, IIT Hyderabad**      *Summer 2016 - Present*
- Responsible for setting up the entire incubation center from scratch. Currently product designer and technical assistant to the fellows at CHE-IITH
  - Underwent training at IndioLabs - A healthcare startup in Bangalore
- **Product Development Intern - 3D Printing Using UV DLP Technique**    *Summer 2015*  
*Mentor : Mr. Anubhav Bansal, DreamsInfinity, Delhi*
- Designed and developed a commercial 3D printer using UV DLP Technique for a budding Delhi based startup
  - Minimized cost with indigenous manufacturing & performed numerous experiments on resin parameters.
  - Developed the Arduino code base for motor movement from scratch
  - Softwares Used : **SolidWorks, Creation Workshop** (Open Source) with customization.
- **Cinepad V1.0 (Smartphone Cinematography Pod) - Mini Project**      *Spring 2016*  
*Prof. Karri Badarinath, IIT Hyderabad*
- Developed a prototype of an anti-shaking, multi-DOF cinematography pod for smartphones. Portable and ergonomic, it has gooseneck mobile holder for flexibility and mike-stand components for desired translational & rotational motion.
- **GoKart Project - Design of Machine Elements**      *Autumn 2015*  
*Prof. Vishwanath Chinthapenta, IIT Hyderabad*
- Led the **Steering Subsystem** team for this class project consisting of 8 members. Responsible for complete design & cost analysis of steering system for proposed Go-Kart.
- **Probing The Survival Of Aquatic Ectotherms In Extreme Seasons**      *Autumn 2015*  
*Prof. Nishanth Dongari, Heat & Mass Transfer, IIT Hyderabad*
- Analytical and CFD analysis of ice formation in lakes during winter & thermal stratification during summer. Modeled lake in ICEM-CFD and studied effect of meshing parameters on final solution obtained using ANSYS-FLUENT.
- **Mechanically Automated Periodic Garden Watering System**      *Autumn 2014*  
*Prof. B. Venkatesham, Kinematics & Dynamis of Machinery, IIT Hyderabad*
- Made a garden watering system addressing the problem of dying plants in absence of caretaker. Headed the team of 4 members. The mechanism used worm gears for considerable speed reduction, manufactured using 3D printing.
- **Vibrational Frequency Detector Using Light**      *Autumn 2013*  
*Independent Project, IIT Hyderabad*
- A device for measuring vibrational frequency of mechanical systems using light. Used light-to-voltage converters, ADC along with DATAQ software kit to indicate flaws before it becomes fatal.
- **IIT Hyderabad Student Satellite Project**      *2014-2015*  
*Head : Shanti Swaroop Kandala (Ph.D Scholar, ME & Aerospace Engg.)*
- Core member of ADCS (Attitude Determination & Control Subsystem) since the inception of this project. Biggest student undertaken project in IITH.
- **IBM IoT Hackathon - Bluemix Platform**      *Spring 2015*  
*ELAN 2015, IIT Hyderabad*
- Built a real time bus tracking system using Arduino based transceiver and IBM Bluemix cloud platform for app deployment.
- **IBM Drone Hackathon - Nvision 2016**      *Spring 2016*
- Built **Thready** - threat detection system using drones. Used Spark Photon for transmitting data. One of the top 5 teams selected for presenting demo.

- **Web Coordinator, Nvision 2016, Techno-management Fest, IIT Hyderabad**
  - **Graphic Designer - EML IITH & Elektronica (Electronics club, IITH)**
  - **Teaching Assistant, Digital Fabrication Course, Prof. S. Surya, IIT Hyderabad**
  - **Web & Content Manager, TEDxIITH 2015 & Sunshine (Counselling Cell)**
- One of the 15 students selected for **i.school Workshop 2016** - Experience Design in India
- **Business Simulation Game** winner among 30+ teams across entire IITH. Won sponsored entry to E-Summit 2015, IIT Bombay
- Awarded **Internshala Merit Certificate** for securing internship out of 700+ applicants
- Won ‘**Best Director**’ award for my first shortfilm ‘Refaire’ at IITH Film Festival 2016
- Felicitated by Dr. Reddy’s Lab for building ‘**Medbuzz**’ (a personalized healthcare system for geriatrics) at Startup Weekend Hyderabad 2016
- **Versatile Blogger Award** - for my blog ([thevindicatedaxiom.wordpress.com](http://thevindicatedaxiom.wordpress.com)) on covering diverse topics