CHANDAN KUMAR SINHA

Mechanical & Aerospace Engineering (Hons.)
Class of 2017
Indian Institute of Technology, Hyderabad

Male
DOB: 15.03.1996
me13b1009[at]iith.ac.in

mechanicalcoder.github.io
+91-9494826729
linkedin.com/in/chandansinha1
github.com/MechanicalCoder
thevindicatedaxiom
quora.com/chandan-sinha-8

Examination	University	School/Institute	Year	CPI / %
Undergraduation	IIT Hyderabad	IIT Hyderabad	2017	7.98/10
Intermediate	CBSE	D.A.V Pulic School, Koylanagar	2013	96.2
Matriculation	CBSE	D.A.V. Model School, CFRI	2011	10/10

WORK EXPERIENCE

- **Bharat Petroleum Corp. Ltd.,** *Maharatna PSU, Govt. of India* — *June 2017- Present*
  Executive Manager, Retail Ops.
  - Handled multiple roles including HSSE, planning, gantry, wagon, etc. Mainly looked after plant maintenance & automation (Contorl Room Officer)
  - Served at two major locations - Siliguri (West Bengal; only BPCL plant to supply bonded product to foreign location i.e Bhutan) & Balasore (Orissa)

INTERNSHIP EXPERIENCE

- **Center for Healthcare Entrepreneurship, IIT Hyderabad** — *Summer 2016 - 2017*
  Mentor : Prof. Mohan Raghavan, Biomedical Engg., IITH
  - Responsible for setting up the entire incubation center from scratch. Worked as technical assistant to the fellows for their product development
  - 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. Cost minimized using indigenous manufacturing tweaking with photochemical resin parameters.
  - Developed the Arduino code base for motor movement from scratch
  - Sofwares Used : **SolidWorks**, **Creation Workshop** (Open Source) with customization.

Product Designer

Creative Writer

Bibliophile

PROJECTS UNDERTAKEN

Academic

Non-Academic

- **Cinepad V1.0 (Smarphone Cinematography Pod)** — *Spring 2016-2017*
  Prof. Karri Badarinath, IIT Hyderabad
  - Developed a prototype for 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.
  - Worked on V2.0 as an electromechanicl device as for my **Hons. Project** in the likes of DJI Osmo Mobile & Zhiyun Crane.

- **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
  Addressed 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.

- **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.

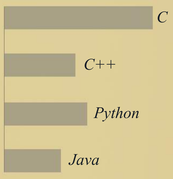
- **IBM Drone Hackathon - Nvision 2016** — *Spring 2016*
  Built **Thready** - threat detection system using drones. Used Spark Photon for transmitting data. One of the top 5 teams selected for presenting demo.

- **Medbuzz - Personalized Healthcare System for Geriatrics** — *2016-2017*
  Developed at Startup Weekend Hyderabad, the product is a smart wearable for geriatric montoring and notify in case of fall or degrading health parameters. Facilitated by Dr. Reddy's Lab to further develop the idea.

Computer Proficiency

OS - LINUX, Windows

</> Programming Languages-



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

- **Web Coordinator, ηvision 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)
- **Co-founder: triplou.com -** a 360 degree travel experience platform.

Regular Quizzer

AWARDS & ACHIEVEMENTS

- 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 **Global E-Summit 2015, IIT Bombay**
- Won '**Best Director**' award for my first shortfilm '**Refaire**' at IITH Film Festival 2016

Film-maker