

CHANDAN KUMAR SINHA B.Tech, Mechanical Engineering (Hons.) Class of 2017 Indian Institute of Technology Hyderabad

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Spring 2016-2017

Autumn 2014

Spring 2016

2016-2017

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

- Bharat Petroleum Corp. Ltd., Maharatna PSU, Govt. of India June'17- Aug'18 Executive Manager, Retail Ops. - Handled multiple roles including safety engineer, product dispatch planning, gantry
  - and wagon operations at two major locations Siliguri & Balasore - Mainly looked after plant maintenance & automation (field instruments, PLCs &
  - SCADA) as Control Room Officer
- Center for Healthcare Entrepreneurship, IIT Hyderabad May'16 - Apr'17 Mentor: Prof. Mohan Raghavan, Biomedical Engineering, IITH - Responsible for setting up the entire incubation center from scratch. Later
  - 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 Mentor: Mr. Anubhav Bansal, DreamsInfinity, Delhi - Designed and developed a commercial 3D printer using UV DLP (Direct Light Pro
    - cessing) Technique for a budding Delhi based startup. Minimized prototyping cost using indigenous manufacturing & tweaking with photochemical resin parameters - Developed the Arduino code base for printing logic from scratch
    - Softwares Used: SolidWorks, Creation Workshop (Open Source) with customization

• Cinepad V1.0 (Smarphone Cinematography Pod)

- Guide: Prof. Karri Badarinath, Mechanical Engineering, IITH - 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 electro-mechanical device for my Hons. Project in the likes of DJI Osmo Mobile & Zhiyun Crane
  - Analytical and CFD analysis of ice formation in lakes during winter & thermal stratification during summer. Modeled lake in ICEM-CFD and studied effects of meshing parameters on final solution, obtained using ANSYS-FLUENT

**Probing The Survival Of Aquatic Ectotherms In Extreme Seasons** 

Guide: Prof. Nishanth Dongari, Heat & Mass Transfer, IITH

- Mechanically Automated Periodic Garden Watering System
  Guide: Prof. B. Venkatesham, Kinematics & Dynamics of Machinery, IITH Built a mechanical device which addresses the problem of periodically watering plants in absence of caretaker. The mechanism used worm gears for considerable speed reduction of the actuator at end effector, 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. Worked on magnetometers, reaction wheels & thrusters IBM IoT Hackathon - Bluemix Platform Spring 2015

ELAN 2015, Cultural cum Techanical Fest, IITH Built a real time bus tracking system using Arduino based transceiver and IBM Bluemix cloud platform for app deployment. • IBM Drone Hackathon - Nvision 2016

Built Thready - threat detection system using drones. Used 'Spark Photon' for transmitting data. One of the top 5 teams selected for presenting live demo.

- Developed at Startup Weekend Hyderabad, the product is a smart wearable for geriatric monitoring. It sends notification in case of fall or degrading health parameters. Facilitated by Dr. Reddy's Lab for further developing the product.
- Web Coordinator, ηvision 2016, Techno-management Fest, IIT Hyderabad

Medbuzz - Personalized Healthcare System for Geriatrics

- 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
- One of the 15 students selected for i.school Workshop 2016 Experience Design in India
- Won 'Best Director' award for my first shortfilm 'Refaire' at IITH Film Festival 2016
- Business Simulation Game winner among 30+ teams across entire IITH. Won sponsored entry to Global E-Summit 2015, IIT Bombay

## INTERNSHIP EXPERIENCE



+91-9494826729 in linkedin.com/in/chandansinha github.com/MechanicalCode thevindicatedaxiom Q quora.com/chandan-sinha-8

> WORK EXPERIENCE







- Academic Non-Academic
- 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

**E**Database Familiarity -MySQL PostgreSQL



RESPONSIBILITY

POSITIONS OF

Regular Quizzer

AWARDS & ACHIEVEMENTS

Film-maker