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

भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

Male
DOB: 15.03.1996
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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*
  Management Trainee

  - Posted in retail operations. Mainly looked after plant maintenance & automation including field instruments, PLCs and SCADA as Control Room Officer (CRO)

  - Served at two major locations - Siliguri (West Bengal; only BPCL location to supply bonded product to foreign location i.e Bhutan) & Balasore (Orissa)

INTERNSHIP EXPERIENCE

🦾 *Product Designer*

📝 *Creative Writer*

📖 *Bibliophile*

- **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 by indigenous manufacturing, local procurement of photochemical resin and tweaking parameters for suitability

  - Developed the Arduino code base for motor movement from scratch

  - Sofwares Used : **SolidWorks**, **Creation Workshop** (Open Source) with customization

PROJECTS UNDERTAKEN

■ **Academic**
■ **Non-Academic**

- **Cinepad V1.0 (Smartphone 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 electromechanical device for my **Hons. Project** in the likes of DJI Osmo Mobile & Zhiyun Crane

Computer Proficiency

OS - LINUX, Windows

</> **Programming Languages-**

C
C++
Python
Java

- **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 effects of meshing parameters on final solution obtained using **ANSYS-FLUENT**.

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

- **Mechanically Automated Periodic Garden Watering System**   *Autumn 2014*
  Prof. B.Venkatesham, Kinematics & Dynamics of Machinery, IIT Hyderabad

  Addressed the problem of dying plants in the absence of caretaker.
  The mechanism used worm gears for considerable speed reduction, manufactured using 3D printing.

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

- **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.

Database Familiarity -
MySQL
PostgreSQL
phpMyAdmin

- **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.

TEX *LATEX*   *Git*

- **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 monitoring which sends notification in case of fall or degrading health. Facilitated by Dr. Reddy's Lab to further develop the idea.

POSITIONS OF RESPONSIBILITY

⚡ *Regular Quizzer*

- **Web Coordinator,** η**vision 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.

AWARDS & ACHIEVEMENTS

🎥 *Film-maker*

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