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

Chandan Kumar Sinha
Mechanical & Aerospace Engineering
Indian Institute of Technology, Hyderabad
Email- me13b1009[at]iith.ac.in

ME13B1009
Third 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 Pulic School, Koylanagar	2013	96.2
Matriculation	CBSE	D.A.V. Model School, CFRI	2011	10/10

KEY SCHOLASTIC ACHIEVEMENTS

- Recepient of **Institute Free Scholarship** for academic year 2015-2016
- Awarded **'A' (10/10)** grade in all the LAB courses taken 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 15th National Science Olympiad, 2013
- **International Rank under 250** & School Rank 1 in 5th & 6th International Mathematics Olympiad

INTERNSHIP EXPERIENCE

Product Designer
UI/UX Developer
Wannapreneur
Creative Writer
Bibliophile

- **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
  - Brought down the cost of development compared to available products with indigenous manufacturing & numerious experiments on associated parameters.
  - Developed the Arduino code base for motor movement from scratch
  - Sofwares Used : **SolidWorks**, **Creation Workshop** (Open Source) with customization.

- **UI/UX Designing & Development** *Spring 2015*
  Unigem Techonology Pvt. Ltd., **Delhi**
  - Developed the front end for two upcoming products for this Delhi-based Startup namely *HackNinjas & DoctorsNow*.

PROJECTS UNDERTAKEN

Academic
Non-Academic

- **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 gardening 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. Uses optical converters, ADC along with data acquisition kit & software and bread-board circuit. Proposed to be applicable in BAJA Car subject to enhanced portability.

- **IIT Hyderabad Student Satellite Project** *Spring 2014 - Present*
  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. Also responsible for development & maintainance of its website.

- **IBM IoT Hackathon - Bluemix Platform** *Spring 2015*
  ELAN 2015, IIT Hyderabad
  Build a real time bus tracking system using Arduino based transceiver and IBM Bluemix cloud platform for application deployment. Made a web interface for displaying parsed information from obtained data.

- **IITH Library Website Update - Working with Drupal CMS**
  Mallikarjuna C., Librarian, IITH
  Took this project out of sheer interest for working with CMS. Responsible for full fledged library website with added features and better browsing experience.

Computer Proficiency

OS - LINUX, Windows

</> Programming Languages-

- *C*
- *C++*
- *Python*
- *Java*

Web Programming -
HTML5, CSS3, JavaScript
NodeJS, AngularJS

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

Database Familiarity -
MySQL
PostgreSQL
phpMyAdmin

LATEX *Git*

CURRENT POSITIONS OF RESPONSIBILITY

- **Web Coordinator**, **ηvision 2016**, *Techno-management Fest, IIT Hyderabad*
  Responsible for developing its beta and main websites along with various micro-sites and portal for events and marketing.
- **Extra Mural Lectures (EML) Team**, *IIT Hyderabad*
  Core member of organizing team hosting various dignitaries for their inspirational talks. Graphic designing of posters, flyers to be shared on social media pages. Also designed the logo for the same.
- **Teaching Assistant, Digital Fabrication Course,** *Prof. S. Surya, IIT Hyderabad*
  Mentored a group of 14 students in Computer Graphics using SolidEdge. Helping them with the doubts and marking their assignments. Also guided a group of 9 students in 3D printing their models in latter half of this course.

Quizzing
Photography
Cinematography

KEY COURSES UNDERTAKEN

CORE	BREADTH
Mechanical Workshops	Data Structures & DBMS
Heat & Mass Transfer	Creative Product Design
Design of Machine Elements	Concepts of Engg. Design
Manufacturing Sciences- I & II	Introduction to Cinematography
Kinematics & Dynamics of Machinery	Language, Cognition & Computation

Vocalist
Transition_Redefined