

Chandan Sinha

✉ me13b1009@iith.ac.in

🌐 <http://chandansinha.me>

☎ +91-9494826729

EDUCATION

IIT HYDERABAD

MECHANICAL ENGINEERING (HONS.)

Graduated Aug'17 | Telangana, India

Cum. GPA: 7.98/10

Product Design & Mechatronics

D.A.V PUBLIC SCHOOL

Intermediate | May'13

IMO, NSO Gold Medalist

96.2%

Dhanbad, India

LINKS

Github:// [MechanicalCoder](#)

LinkedIn:// [chandansinha1](#)

YouTube:// [ChandanSinha1](#)

Techblog:// [mechandansinha](#)

GrabCAD:// [chandansinha-1](#)

WordPress:// [Chandan Sinha](#)

Twitter:// [@OrangeDurito](#)

COURSEWORK

UNDERGRADUATE

Kinematics & Dynamics of Machinery

Design of Machine Elements

Machine Drawing & Solid Modeling

Computer Integrated Manufacturing

Finite Element Analysis

Additive Manufacturing

(Teaching Assistant)

ADDITIONAL/ONLINE

Creative Product Design

Fatigue & Damage Tolerance Introduction
to Data Structures

Database Systems + Lab

Exploring Performance Spectrum

Introduction to Film, Music & Technology

Dynamics & Control - MITOCW

SKILLS

PROGRAMMING

C • C++ • Python • Arduino

HTML5 • CSS3 • JavaScript • \LaTeX

MODELING/SIMULATION

SolidWorks • SolidEdge • ANSYS

ICEM-CFD • MATLAB

MISCELLANEOUS

Databases - PostgreSQL, phpMyAdmin

OS - Linux, Windows

Creativity - Adobe CC Suite

WORK EXPERIENCE

INDIAN INSTITUTE OF SCIENCE | PROJECT ASSISTANT

May 2019 – Present | Bangalore, India

- Working as a Project Assistant in Turbulent Combustion & Spray Research Laboratory, Dept. of Aerospace Engineering, IISc. under the guidance of Prof. Swetaprovo Chaudhary. Current project deals with understanding the flame interaction dynamics in multi-swirler setup of land based gas-turbine engines.

TRIPOU | Co-FOUNDER & PRODUCT ARCHITECT

Sep 2018 – Present | Kolkata, India

- Triplou is a 360-degree travel experience platform addressing the problem of fragmented travel industry. With handpicked experiential stays, adventures & activities, it aims to promote sustainable tourism by pool of all local vendors. Recognized by NASSCOM, Kolkata Ventures and BIA.

BHARAT PETROLEUM CORP. LTD. | EXECUTIVE, RETAIL OPERATIONS

June 2017 – Aug 2018 | Balasore, India

- Worked on TAS (Terminal Automation System), safety systems, equipment testing & maintenance related to handling of Class A inflammable products.
- Managerial responsibilities include product dispatch planning, gantry & wagon operations, audit compliance inline with OISD & MBLR guidelines.

CENTER FOR HEALTHCARE ENTREPRENEURSHIP | INTERN

May 2016 – Apr 2017 | IIT Hyderabad

- One of 4 interns selected for setting up the lab. Underwent training at IndioLabs, Bangalore to understand the nuances of building med-tech products.
- Learned 'Human Centered Design' approach following the Stanford-India BioDesign process. Spent my final year working as technical assistant to the fellows. Part of early 'NeMo.Care Wellness' team.

DREAMSINFINITY | PRODUCT DEVELOPMENT INTERN

June 2015 – July 2015 | New Delhi, India

- Designed & developed a commercial 3D printer that uses UV-DLP technique.
- Minimized prototyping cost by indigenous manufacturing and in-house resin preparation. Offered in 2 configurations: top-down & bottom-up.
- Wrote the Arduino code base for printing logic in conjunction with customized open-source 3D printing software, Creation Workshop. Blog Post

NOTABLE PROJECTS

DYNAMIC MODELING OF 3-AXIS GIMBAL | HONORS PROJECT

Aug 2016 – Apr 2017 | IIT Hyderabad

Worked on a 3-axis gimbal for better hand-held cinematography with smartphones. As v1.0, built a low-cost prototype of anti-shaking, mutli-DOF cinematography pod. Made lot of my early YouTube videos with this equipment. Report

IIT HYDERABAD STUDENT SATELLITE PROJECT | ADCS MEMBER

Aug 2014 – Apr 2015 | Hyderabad, India

Core member of Attitude Determination & Control Subsystem. Worked on feasibility study of magnetic torquers, reaction wheel and thrusters. Did literature study on payload selection. Head of web team for the same. Reports