

Chandan Sinha

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EDUCATION

IIT HYDERABAD

MECHANICAL ENGINEERING (HONS.)

2013 - 2017 | Telangana, India

CGPA: 7.98/10

Product Design & Mechatronics

D.A.V PUBLIC SCHOOL

Intermediate | May 2013

IMO, NSO Gold Medalist

96.2% - CBSE Merit Certificate

Koylanagar, Dhanbad, India

LINKS

Github:// [MechanicalCoder](#)

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

LinkedIn:// [chandansinha1](#)

StackExchange:// [OrangeDurito](#)

Techblog:// [mechandansinha](#)

WordPress:// [thevindicatedaxiom](#)

YouTube:// [ChandanSinha1](#)

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

Introduction to Data Structures

Database Systems - Theory + Lab

Introduction to Film, Music & Technology

Dynamics & Control - MITOCW

Modern Robotics Specialization -

Coursera

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 | RESEARCH ASSISTANT

May 2019 – Present | Bangalore, India

- Joined Propulsion and Energy Conversion Lab in the Dept. of Aerospace Engineering under the guidance of Prof. Swetaprovo Chaudhary. Worked on computational analysis of blow off dynamics in interacting swirl premixed flame for gas turbine engines. Find my research paper here.

TRIPOLOU | Co-FOUNDER & PRODUCT ARCHITECT

Sep 2018 – Present | Kolkata, India

- Triploou 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 'NeMo.Care Wellness' founding 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. See my blog post here

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