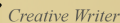


INTERNSHIP EXPERIENCE



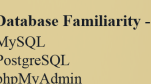
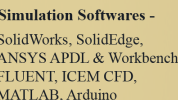
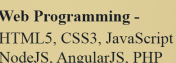
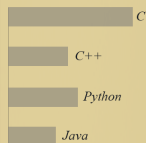
PROJECTS UNDERTAKEN



Computer Proficiency



Programming Languages-



POSITIONS OF RESPONSIBILITY

AWARDS & ACHIEVEMENTS



Mechanical & Aerospace Engineering (Hons.)

Indian Institute of Technology, Hyderabad

Email- [mel3b1009\[at\]iith.ac.in](mailto:mel3b1009[at]iith.ac.in)

ME13B1009

Final 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

- Recipient of Institute Free Scholarship (IFS)
- Awarded top grades in all the lab courses and project works 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

- **Center for Healthcare Entrepreneurship, IIT Hyderabad** *Summer 2016 - Present*
 - Responsible for setting up the entire incubation center from scratch. Currently product designer and technical assistant to the fellows at CHE-IITH
 - 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
 - Minimized cost with indigenous manufacturing & performed numerous experiments on resin parameters.
 - Developed the Arduino code base for motor movement from scratch
 - Softwares Used : **SolidWorks, Creation Workshop** (Open Source) with customization.

- Cinepad V1.0 (Smartphone Cinematography Pod) - Mini Project** *Spring 2016*
Prof. Karri Badarinath, IIT Hyderabad
 Developed a prototype of 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.

- GoKart Project** - Design of Machine Elements
Prof. Vishwanath Chinthapenta, IIT Hyderabad *Autumn 2015*
 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**
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 garden 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. Used light-to-voltage converters, ADC along with DATAQ software kit to indicate flaws before it becomes fatal.

- **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.

- 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.

- **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.

- **Web Coordinator, *ηvision 2016, Techno-management Fest, IIT Hyderabad***
- **Graphic Designer - EML IITH & Elektronika (Electronics club, IITH)**
- **Teaching Assistant, Digital Fabrication Course, *Prof. S. Surya, IIT Hyderabad***
- **Web & Content Manager, *TEDxIITH 2015 & Sunshine (Counselling Cell)***

- 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 E-Summit 2015, IIT Bombay
- Awarded **Internshala Merit Certificate** for securing internship out of 700+ applicants
- Won '**Best Director**' award for my first shortfilm 'Refaire' at IITH Film Festival 2016
- Felicitated by Dr. Reddy's Lab for building '**Medbuzz**' (a personalized healthcare system for geriatrics) at Startup Weekend Hyderabad 2016
- **Versatile Blogger Award** - for my blog (thevindicatedaxiom.wordpress.com) on covering diverse topics