

EDUCATION AND SCHOLASTIC ACHIEVEMENTS

Program	Institution	%/CGPA	Year of completion
B.Tech in Mechanical Engineering	Indian Institute of Technology Madras	8.84	2019
XII (SSC)	Sri Chaitanya Educational Institution	98.6%	2015
X (SSC)	Dr. K.K.R.'s Gowthan Concept School	9.5/10	2013

- Among **top 1 percent** in JEE Mains and JEE Advanced 2015
- Stood **6th** in Telangana State EAMCET 2015
- Scored **407 out of 450** in BITSAT 2015

PROFESSIONAL EXPERIENCE

- **Product Development** at **Titan Company Limited**, Research Park, IIT Madras May - Jul'17
 - Developed a **wearable device** to control Powerpoint presentations wirelessly using gestures
 - Used Attiny85 microcontroller with gyroscope as sensor and Bluetooth to communicate
 - Made a Windows forms application in **C#** to receive the data and control Powerpoint presentations
 - Currently in talks to implement the product across **Titan offices and stores** in India

PROJECTS

- **KINECT**, Envisage, IIT Madras Sep - Dec'16
 - Designed and created a **technical entertainment show** with gesture detection using **Microsoft Kinect**
 - Programmed gesture controlled graphics in **C++** using frameworks written over **OpenGL**
 - Displayed to an **audience of 2000** as a part of **Envisage** in Shastra; Annual Technical Fest
- **SELF BALANCING ARM**, Instrumentation and Control Systems Mar - Apr'17
 - Made a self balancing arm powered by propellers **balancing at set angle**
 - Implemented **closed loop feedback control** using IMU sensor, Arduino and **P.I.D. control system**
- **Team Member, Electrical Subsystem, Amogh**, IIT Madras Jun'17 - Current
 - Amogh is an **Autonomous underwater vehicle** being developed by IIT Madras Undergraduate students
 - Currently working on designing the Electronic speed controllers for thrusters and power board
 - Aimed at providing reliable and cost effective solutions for **under water inspection**

COURSEWORK

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|----------------------------------|-------------------------------|--------------------------------|
| • Applied Machine Learning | • Design of Algorithms | • Computational Fluid Dynamics |
| • Applied Thermal Engineering | • Design of Machine Elements* | • Manufacturing Process |
| • Foundations of Fluid Mechanics | • Energy Conversion System* | • Probability and Statistics |

SKILLS

- Programming Languages: **C, C++, C#, Python**
- Software Packages : **AutoCAD, MATLAB, Arduino, Fusion 360, Eagle**

POSITIONS OF RESPONSIBILITY

- **Envisage Coordinator**, Shastra; Annual Technical Fest Sep - Dec'16
 - Part of a 25 member team which organized Envisage; India's first student run Technical Entertainment show
 - Successfully displayed projects worth over **4 Lakhs** and managed an audience of **2000 people**
- **Facilities and Requirements Coordinator**, Saarang; Annual Cultural Fest Sep - Dec'16
 - Smoothly handled the requirements of events without much hassle
 - Optimized the requirements of various events and **reduced expenses by 25 percent** of proposed budget

CO-CURRICULAR ACTIVITIES

- Placed **3rd(out of 10 teams)** in **Autonomous Robotics**, MEA '16; Mechanical Engineering department fest
- Successfully completed **50km** cycling event organized by Cycling Club of IIT Madras