



EDUCATION

Program	Institution	%/CGPA	Year of completion
B.Tech in Mechanical Engineering Minor: System Engineering #	Indian Institute of Technology Madras, Chennai	8.44 [†]	2018
Class XII, CBSE	Jawahar Senior Secondary School, Neyveli	93.8	2014
Class X, CBSE	Jawahar Higher Secondary School, Neyveli	10 [†]	2012

- Ongoing; Offered by Chemical Engineering Department, IIT Madras † - CGPA on a scale of 10

SCHOLASTIC ACHIEVEMENTS

- Selected provisionally for **KVPY¹ Fellowship Award 2013** ranking among the top 1% from over 1 lakh applicants
- Awardee of **INSPIRE Internship Science Camp 2013** by DST, **Ministry of Science and Technology, Govt. of India**
- Secured State rank of **162** in JEE mains among 10K students
- Received merit certificate from **CBSE** for scoring 10 points in all subjects in AISSE.

PUBLICATIONS

- Co-authored White Paper:** Deepanath C, Dhruvi Shah, "Optimized SCADA Application in OpenDNP3 on Energies & Utilities Domain", Tech Mahindra Ltd. (**Paper accepted**, awaiting publication)

PROFESSIONAL EXPERIENCE

- WINTER INTERNSHIP - CATERPILLAR INC., ITDD, ASCENDAS, CHENNAI** Dec'16 - Jan'17
 - Worked on **Light Fabrication Part Proliferation Reduction** project, studied and identified commonality & modularity opportunity in light fabrication components of various cat machines for ITDD²
 - Developed an **Autonomous data acquisition System** (DAQ, a vb.NET based GUI) for comparing various machines Light fab components based on its raw material, process, weight, etc. for commonality opportunity
- SUMMER INTERNSHIP - TECH MAHINDRA, INNOVATION LAB, PUNE** May'16 - Jul'16
 - Developed **SCADA** (Supervisory Control & Data Acquisition) application for transformers deployed in field for TechM's **IEVCS** (Intelligent Electric Vehicle Charging System) project, in collaboration with **Ontario Ministry of Energy**
 - Implemented **Distributed Network Protocol** (DNP) in C++ using Open Source OpenDNP3 library for autonomous data acquisition; Scalable & dynamic solution integrated with **SQL Anywhere** for database handling
 - Deployed on AWS cloud for testing and got **200%** accurate result while uploading to **SAP HANA database**
- INTERMITTENT INTERNSHIP - NEW ENGLAND TECH SERVICES, LLC, CONNECTICUT** Feb'16 - Jul'16
 - Built **20%** light-weight interactive code tutorials which were to be embedded in the **e-book REVEL for Gaddis C++**, Author: Tony Gaddis, Publisher: **Pearson Higher Edu.**
 - Part of 5 membered team working of creating code tutorials using **JSP Applets**

PROJECTS

- ONLINE ECCENTRICITY MONITORING OF SEAMLESS TUBES** Feb'15 - Present
Guide: Prof. Arunachalam, Dept. of Mechanical Engineering, IIT Madras.
 - Used fiber **optic based IR sensors** for monitoring the pipe quality based on temperature in production environment
 - Implemented in Online Eccentricity Monitoring of Seamless Tubes in Cross-Roll Piercing Mill
- WATERFALL GRAPHIC PRINT** Jul'15 - Jan'16
Student led Project, Centre for Innovation (CFI)³, IIT Madras
 - Created patterns by controlling the motion of falling water; Displayed in **Envisage⁴**, the Techno-Cultural show
 - Designed whole **Mechanical Structure and Fluid Flow system** optimally considering other real life constraints
 - Awarded Project member of **Most Innovative Project of the Year Award - CFI Annual Tech Awards 2015-'16**

¹Conducted by IISc Bangalore and Funded by DST, Govt. of India. Web: www.kvpy.iisc.ernet.in/main/index.htm

²Innovation and Technology Development Centre of Caterpillar INC.

³Centre for Innovation (CFI) is the student laboratory of IIT Madras. Web: www.cfi.iitm.ac.in/main/

⁴India's largest student Techno-cultural Show conducted on Day 1 of Shastra

SKILLS

- **Software and Libraries:** Visual Studio, Eclipse, Creo, AutoCAD, Android Studio, Adobe Photoshop
- **Programming Languages:** HTML, CSS, JavaScript, MySQL, SQL Anywhere, C, C++, \LaTeX
- **Operating Systems:** Windows, Linux (Ubuntu, Raspbian, Debian)
- **Microsoft Office:** Advanced Excel, VB Macros

POSITIONS OF RESPONSIBILITY

- **PROJECT SUPER-COORDINATOR(QMS) - ENVISAGE 5.0, SHAASTRA 2017** *May'16 - Present*
 - **Representing** Shaastra⁵ as a part of 10 membered QMS team for **ISO 9001:2008 Surveillance Audit**
 - **Managing** Envisage team of **25 coordinators**, maintaining the quality aspects and documentation of the department
 - **Leading & Mentoring** a team of 4 coordinators for a Techno-Cultural Project for an audience of **6000+** people
- **MANAGER - IITM ASSOCIATIONS TEAM, I&AR STUDENT COUNCIL**⁶ *May'16 - Present*
 - **Initiated** the **first ever** Affinity Program by associating with **13 major** companies in India to bring in exclusive deals & offers for the IITM fraternity; **300+** registrations from students in the **Pilot Launch** and reached out to **500+ Alumni**
 - **Leading & Guiding** a team of 6 Deputy Managers for closing deals; Associated with **5 major hotels** in the city
- **COORDINATOR - SPONSORSHIP & BRANDING TEAM, I&AR STUDENT COUNCIL** *Jun'15-Apr'16*
 - Formulated Creative Posters & Brochures for all I&AR Activities; Managed **Social Media Pages** and got **250%** reach
 - Executed Fund raising and awareness campaigns - *iitm effect, Batch Project 2016* and raised over **34 Lakhs**

RELEVANT COURSES

*- ONGOING COURSES

- **SYSTEMS ENGINEERING - SPECIALIZATION IN ANALYTICS & CONTROL SYSTEMS** *Minor Courses*
 - Process Optimization
 - Multivariate Data Analysis for Process Modeling*
 - Optimal Control*
- **MANUFACTURING, DESIGN AND DEVELOPMENT** *Core Courses*
 - Strength of Materials
 - Engineering Mechanics
 - Materials and Design
 - Design of Machine Elements
 - Process Simulation*
 - Instrumentation and Control
 - Manufacturing Technology
 - Machine Tools and Metrology
 - Unconventional Mfg Techniques*
- **THERMAL AND FLUID MECHANICS** *Core Courses*
 - Thermal Power Engineering*
 - Internal Combustion Engines
 - Thermodynamics
 - Foundations of Fluid Mechanics
 - Refrigeration and Air-conditioning*
 - Heat Transfer
- **MATHEMATICS** *Elective Courses*
 - Calculus of single & multi variables
 - Linear Algebra and Numerical Analysis
 - Differential Equations

EXTRA & CO-CURRICULAR ACTIVITIES

- **MANAGERIAL MEMBER - COMMUNICATION & PUBLICITY TEAM, NSS-IIT MADRAS** *Apr'15-May'16*
 - Assisted in organizing **NSS**⁷ activities for over **1000 student volunteers**; Handled all **Official Social Media Pages**
 - Represented IIT Madras as a **Project Representative** with AID-INDIA NGO
 - Aided Nethrodaya NGO Activities for a period for 10 days as a Scribe & Executive as part of **Winter Internship**
- **INTERNSHALA STUDENT PARTNER BUDDY - INTERNSHALA** *Feb'15 - Present*
 - **Leading and Mentoring** 100+ ISPs from south India to promote Internshala⁸ and its services
 - **Won 1st Prize** among 700+ ISPs in Marketing Case Contest - Creating awareness about internship among freshers
- **ACADEMIC BUDDY, MiTr (GUIDANCE & COUNSELLING UNIT), IIT MADRAS** *Jan'15-May'16*
 - **Mentored & Tutored** 5 freshers for Maths, Physics, Thermodynamics courses for a period of one semester
 - Got Selected for maintaining a good academic performance in the required courses
- **OTHER INTERESTS**
 - Social Service
 - Mentoring
 - People's Management
 - Explored **Mechanica**⁹, **Inter-IIT Sports Meet**¹⁰ and **Shaastra** as **coordinator** since my first year
- **TECHNICAL CONTESTS**
 - Won 3rd prize in **Tech Hackathon** conducted by **IRIS Innovation Team, Tech Mahindra** among 25 5-membered employee team for creating *Smart Down-loader* which saves mobile data by as many devices downloading

⁵Shaastra is the annual student technical festival of IIT Madras. Web: www.shaastra.org

⁶International and Alumni Relations Student Council was formed to work under OIR, OAA, IITMAA office of IIT Madras.

⁷NSS IITM Chapter under Govt. of India. Web: www.nss.iitm.ac.in

⁸Under Marketing Team of Internshala. Web: www.internshala.com

⁹Mechanical Engineering Department festival of IIT Madras

¹⁰Inter-IIT 2015 Meet hosted by IIT Madras