



Arnesh Sukumar
Chemical Engineering
Indian Institute of Technology Bombay

140020118
UG Third Year (B.Tech.)
Male
DOB: 14-02-1997

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2017	7.31

ACADEMIC ACHIEVEMENTS

- Secured **State rank 1**(Tamil Nadu) in Joint Entrance Exam (Architecture) 2014 out of 150 thousand students
- Awarded **KVPY fellowship**, given to the **top 0.3%** of 10000+ students to recognize excellence in Basic sciences
- Pursuing **Minor degree in Industrial Design** from Industrial Design Centre

LEADERSHIP EXPERIENCES

INSTITUTE AQUATICS SECRETARY | Institute Sports Council [Mar '16 – Present]

- Elected by representatives of 8000+ students to **organize 11 events**, acquire sports goods and develop general pool infrastructure for members of the IIT Bombay Swimming Pool with a budget of **INR 0.3 million**
- Procuring funds of **INR 3 million** of alumni donation to build new gym, team room, extend pool
- Leading the organization team** involved in conducting the 25th Swimming Gala, a 2-day state-wide swimming competition with more than 500 participants, managing a budget over **INR 0.2 million**

STUDENT MENTOR | Department Academic Mentorship Program [Mar '16 – Present]

- Selected as academic mentor based on **strong peer review and overall performance** from over 70 applicants
- Responsible for **guiding and supporting a group of 7 sophomores** in their academic and co-curricular activities

TEACHING ASSISTANT | English Cabinet, Student Mentorship Program [May '16 – Present]

- Compiled interactive teaching material to be taught to 40+ students as part of a **pilot program(DUEL)**
- Teaching classes of 20** and prepared innovative after class activities to increase exposure to the language

PROFESSIONAL EXPERIENCES

IN-PLANT TRAINEE AND INTERN | Piramal Enterprises, Healthcare division [Jun '16]

Guide: Mr. L. Suresh – Chief Manager, Engineering (Pharma Solutions)

- Studied and analyzed all the components of the plant like the utilities, production plant and safety
- Increased the efficiency** of the biomass boilers by a new and optimal use of oxygen from the nitrogen plant

OPERATIONS INTERN | CR2 Technologies Ltd. (Product – Medbox) [Dec '15]

- Worked on **App Flow, UI enhancements, Competitor Analysis and Data Analysis**
- Coordinated with a team of 4 to ideate and implement Business Dev ideas increasing app downloads by **400%**

TECHNICAL PROJECTS

BIOSYNTH | Guide: Prof. Sanjay Mahajani [May '15 - Jun '15]

- Experimented with a few changes in the procedure for the **production of Biodiesel** by using **Taguchi method**
- Selected for the **future Biosynth team** of 21 students to conduct plant runs based on overall performance

MODELLING BIO-GASIFIERS | Guide: Prof. Sanjay Mahajani [May '16 – Present]

- Performing a comprehensive Literary Survey to acquaint myself with state of art research done in bio-gasifiers
- Coding a MATLAB model for bio-gasifiers and optimizing the existing design based on experimental data

NANO-INDENTATION OF HUMAN HAIR | Guide: Prof. Prita Pant [May'15 – Jun '15]

- Performed Nano-indentation on human hair considering **Gender and Cosmetics applied**
- Evaluated the **hardness of the hair samples** by keeping variables such as age almost constant

CLASSROOM FOR ALL (ID411 Project) | Guide: Prof. G G Ray, Prof. N Sadhu [Jul '15 – Nov '15]

- Proposed **near-perfect design** of ideal classroom that can **accommodate all types of disabilities** in team of 5
- Formulated the design parameters especially considering the problems of **visually-challenged students**

TECHNICAL EXPERTISE

- Tools and Software:** MATLAB, AutoCAD, SolidWorks, Illustrator, Photoshop, **ASPEN**
- Programming languages:** C++, Python, C, SQL, HTML, CSS
- Fluency in **English**, working proficiency in **French**, elementary proficiency in **German**

EXTRA CURRICULAR ACHIEVEMENTS

- Inter IIT:** 3rd in Water Polo ; 4th in 200m Individual Medley [2015]
- Swimming Gala:** 1st in 4x100m Medley Relay and created a record ; 2nd in 100m Butterfly [2016]
- YMCA:** Silver in 'B' division Water Polo league and selected for 'A' division Water Polo League matches [2015]
- GMAAA:** Special mention in Water polo league playing with top Indian teams like the Central Railways [2015]
- Placed 4th (130+ participants) in **Swimathon** (swam **20.5 km** in **12 continuous hours**) [2015]