



Arnesh Sukumar
Chemical Engineering
Indian Institute of Technology Bombay
Specialization: Chemical Engineering

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UG Second Year
Male
DOB: 14-02-1997

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2016	7.57
Intermediate/+2	AISSCE / CBSE	Maharishi Int Res School	2014	97.20
Matriculation	AISSE / CBSE	Maharishi Int Res School	2012	10.00

ACADEMIC ACHIEVEMENTS

- Secured **AIR 1122** in Joint Entrance Exam (Advanced) 2014 out of nearly 0.15 million students
- Achieved **99.88 percentile** in Joint Entrance Exam (Main) 2014 out of nearly 1.4 mn students
- Received **KVPY fellowship (2013)** with an **AIR 181 of 10k** students who appeared from across the country on the basis of performance in a written test and an interview
- Acquired **State rank 1** in Joint Entrance Exam (Architecture) 2014
- Shortlisted for Indian National Astronomy Olympiad level-2 and AMTI level-2 (class 9, 10, 12)
- Qualified for **INSPIRE scholarship** based on performance in class 12 (top 0.1% of country)
- Currently pursuing a Bachelor of Technology with a **minor in Design** from Industrial Design Centre at the Indian Institute of Technology Bombay, Mumbai, India
- Obtained **maximum marks possible in Mathematics** in CBSE class 12 Examination

EXPERIENCE

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

- Created a presentation on the App flow and UI enhancements and presented it to the Tech team
- Compared the app with other competitors and suggested few changes and additions to the product
- Prepared a comprehensive analysis of around 1200 calls and presented it to the Management
- Brainstormed innovative ways to market the product and implemented them successfully
- Coordinated with a team of 4 other interns to ideate and implement Business Development ideas

POSITIONS OF RESPONSIBILITY

INSTITUTE AQUATICS CONVENER | Swimming Club [May 2015 – Present]

- Initiating **revival** of the event “**Swimming Gala**”, a prestigious annual 4-day competition for swimmers across Maharashtra to prove their expertise, which hasn't taken place since 2007
- Worked in a team to successfully **organize a variety of events** like the freshmen sports orientation, sports treasure hunt and Freshmen fitness test managing around **800 students**
- Managing the institute aquatics team by **coordinating practice sessions** and other events.

HORIZONS COORDINATOR | Mood Indigo 2015 [March 2015 – December 2015]

- Negotiating with unique artists/performers of over 20 countries to showcase rare art forms
- Leading a team of more than 20 organizers in ideating and organizing over 10 events
- Conceptualized and ideated Food-Fest, giving a cultural dimension to Food; with chef demonstrations, workshops and interactive sessions with the pioneers in food art

MESS COMMITTEE HEAD | Maharishi International Residential School [June 2012 – January 2014]

- **Presided** over the schools' **20-member mess committee** for over a year and a half
- Decided **every month's menu** with the committee considering the response, requests and complaints of the students keeping in mind the **annual budget of around Rs.180 million**
- Brought about a lot of **variety** in the menu of the school's mess serving around **2500 people**

SCHOOL PUPIL LEADER | Maharishi International Residential School [June 2012 – March 2013]

- **Voted** by secondary school students to **supervise over school and hostel affairs** of a school with **strength of 2200 students**
- Successfully **oversaw and organized** all the **cultural activities** and represented the school in **leadership events**, was responsible the discipline and the smooth conduct of all events

TECHNICAL SKILLS

- Programming languages: C++, Python, C, SQL, HTML, CSS
- Tools and environments: AutoCAD, MATLAB, SolidWorks, MS Office, Illustrator, Photoshop

EXTRA CURRICULAR ACHIEVEMENTS

Aquatics

- Selected as a part of the **Inter IIT Aquatics Camp 2014** and **Institute Water Polo Team 2015**
- Came Fourth in Individual Medley and Third in Water Polo in a nation-wide Aquatics Meet [2015]
- Won **silver** in the **Medley relay** in swimming GC [2015]
- Placed **4th** (out of around 150) in **Swimathon** (Swam **20.5 km** in **12 continuous hours**) [2015]

Other

- Fluency in **English**, working proficiency in **French**, elementary proficiency in **German**
- Participated in the Remote Control Plane competition held in IIT Bombay
- Was awarded **special mention in freshezza video making** (IITB freshmen competitions)
- Was part of **Swimming, Volleyball, Throwball (Captain)** team that represented my school
- Actively took part in a lot of cultural activities and quizzes in school level

TECHNICAL PROJECTS

CLASSROOM FOR ALL | Guide: Prof. G G Ray, Prof. N Sadhu [Autumn 2015]

- **Analyzed and Redesigned the classroom doors** that can **accommodate all kinds of people** especially considering the problems faced by people with disabilities
- Developed the set of **design parameters** and **features** to be included in the ideal classroom for **visually-challenged students** as a part of the overall project coordinating with a team of **5 members**

NANO-INDENTATION OF HUMAN HAIR | Guide: Prof. Prita Pant [Summer 2015]

- Performed **Nano-indentation on Human hair** considering a variety of variables
- Learnt the basics of Nano-indentation and the operation of the Nano Indenter
- Examined the **hardness of the hair samples** by keeping variables such as age almost constant
- Differentiated and analyzed the hardness on the basis of **gender, cosmetics applied**

BIOSYNTH | Guide: Prof. Sanjay Mahajani [Summer 2015]

- Studied about **Bio-diesel** and did literature reading on water-washing and glycerolysis
- Experimented with a few changes in the procedure of **water-washing and distillation**
- Made a presentation that stood out from the rest due to presence of **graphical analysis**
- Got selected for coordinating the **future Biosynth batch** with a team of 21 students

GRAPHING SCIENTIFIC CALCULATOR | Guide: Prof. Deepak Phatak, Prof. Supratik C [Autumn 2014]

- Ideated and developed an algorithm for the **graphing scientific calculator**
- Programmed the functions, **coded the parsing** in **C++** with a **4-member team**
- Created the user interface using **graphics.h, SimpleCPP** and **GTK** graphical packages for **C++**

MAKING A REMOTE CONTROLLED RACE CAR | XLR8 COMPETITION [August 2014]

- Constructed a **wired/wireless remote controlled** bot with a team of 4 members
- Gestated a unique design of the bot with a **wooden chassis and rubber strips**
- Navigated the bot in an **obstacle course** with various inclines, barriers and terrains

KEY COURSES

- Chemical Engineering – Introduction to Chemical Engineering, Transport Phenomena, Thermodynamics, Heat transfer*, Process Fluid Mechanics*, Process Plant Simulation*
- Computer Science – Computer Programming and Utilization, Computational Methods Lab
- Mathematics/Statistics – Calculus, Linear Algebra, Differential Equations (I & II), Numerical Analysis, Introduction to Data Analysis*
- Introductory Courses – Quantum Mechanics, Electricity and Magnetism, Biology, Economics*, Ergonomics, Philosophy
- Other Courses – Biosensors and BioMEMS*