Aakash Khandelwal   110020089
Chemical Engineering   **UG Third Year (B.Tech.)**
Indian Institute of Technology Bombay   **Male**
Specialization: NONE   **DOB: 05/11/1995**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2014	7.20
Intermediate/+2	Central Board of Secondary Education	D.A.V. Public School	2011	86.40
Matriculation	Central Board of Secondary Education	D.A.V. Public School	2009	91.60

Scholastic Achievements:

- Secured **All India Rank 858** in **IIT-JEE 2011** with nearly 500000 students participating across the nation
- Secured **All India Rank 2705** in **AIEEE 2011** (All India Engineering Entrance Examination) with about 1200000 students appearing for the examination
- **Awarded Scholarship** for **Rank 8** in National Level **D.A.V Talent Search Scholarship Examination, 2008-09** conducted by **D.A.V. Centre for Creative Education**
- **Awarded Scholarship** in the **Insight National Talent Hunt 07-08** conducted by **NavGurukul**

Key Academic Projects:

- **Project BioSynth, IIT Bombay**   *[June 2012 – December 2012]*
  (Installing a Biodiesel Plant of 200L per batch capacity produced using Waste Vegetable Oil.)
  o Helped to finalize the project at lab scale and scale up to plant scale
  o Ensured the adherence of biodiesel as per ASTM standards
  o Was involved in performing equipment design, making Process Flow Diagram and Piping and Instrumentation Diagram

- **Industrial Visit : Rashtriya Chemical Fertilizers, Chembur**   *[January 2012]*
  o Worked on Double Absorption Double Contact (DADC) Technology for commercial production of Sulphuric Acid
  o Prepared a detailed report on complete working of the Sulphuric Acid Production Plant described using Flow Diagrams, Mass and Energy Balances

Position of Responsibility:

- **Hostel Cultural Councillor**   *[April 2013 till date]*
  o Represent the hostel in the Institute Cultural Committee consisting of Institute Cultural Secretaries and respective Councillors of all the hostels
  o Lead the Hostel Cultural Council of 13 Hostel Secretaries to oversee all the social and cultural activities in the hostel and ensure effective participation in the institute competitions

- **Hostel Dance Secretary**   *[August 2012 – April 2013]*
  o Initiated the participation of hostel members in dance events
  o Systematized a new Dance Room in Hostel

- **Exhibitions Coordinator, Techfest'13** *(Asia's largest college technical festival)*
  o Connected to the universities all around the world to manifest their research in Exhibitions
  o Supervised a team of 6 organisers to handle the demonstration of Artificial Intelligence based robot HIRO from Japan and MIT Media Labs in the International Exhibitions section

- **Dance In-charge, Performing Arts Festival'13***(Annual inter-hostel cultural competition)*

- **Organiser, Mood Indigo'11** *(Asia's Largest College Cultural Festival)*
- **Organiser, Techfest'12**

Software Skills:

- Programming Languages : C++, Python
- Numerical Computing : MATLAB
- Statistical Computing : Scilab, R

Extracurricular Activities:

- Completed a **1-year Vocals training** program (Classical Music) under **NSO** (National Sports Organization program).
- Mathematics Exhibition entry qualified for **Interschool Exhibitions** in Class 10th.
- Exhibited my artwork in the **Kaladarshan'13 (Art Exhibition), IIT Bombay**
- Active member of **InSync, Dance Club of IIT Bombay** and participated in **Annual InSync Dance Festival'12**.
- Programmed and designed a **Remote Controlled Car** for **Tech-one** during first year of college.

Courses Undertaken:

- **Chemical Engineering** : Introduction to Chemical Engineering, Solid Mechanics, Introduction to Transport Phenomena, Chemical Engineering Thermodynamics, Process Fluid Mechanics, Chemical Reaction Engineering, Introduction to Numerical Analysis, Material Science*, Mass Transfer Operations*, Safety in Chemical Industry*
- **Other Department Courses** : Economics, Data Analysis and Interpretation, Calculus, Engineering Graphics and Drawing, Modern Physics, Chemistry, Computer Programming and Utilization, Linear Algebra, Differential Equations, Experimental and Measurement Laboratory, Complex Analysis, Differential Analysis II, Environmental Engineering, Introduction to Electrical and Electronic Circuits, Psychology, Network Flow Theory and Applications*, Topics in Industrial Engineering and Operations Research*,
- **Online Courses** : Introduction to Sociology, Introduction to Finance, Financial Engineering and Risk Management*, Mathematical Methods for Quantitative Finance*, Discrete Optimization*,

*(*Currently doing these courses.)*