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| 11.jpg | **Tanuj Khandelwal** | **09002022** |
| **Chemical Engineering** | **B Tech** |
| **IIT Bombay** | **Male** |
| **Specializing-Chemical Engineering** | **DOB: 17th August 1991** |

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| **Examination** | **University** | **Institute** | **Year** | **CPI / %** |
| Graduation(till 5th Sem) | IIT Bombay | IIT Bombay | 2011 | 6.84/10 |
| Intermediate/+2 | CBSE | DAV Public School | 2009 | 86.4 |
| Matriculation | CBSE | DAV Public School | 2007 | 90.2 |

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| ACADEMIC ACHIEVEMENTS AND AWARDS |

* Secured an All-India Rankof **923** in **IIT-JEE 2009** in which over 400000 students appeared throughout the country.
* Was selected for the prestigious **National Talent Search Examination (NTSE)** Scholarship by the Government of India, 2007.Only 1000 are selected out of more than 1,50,000 students all over India.
* Was among the top 100 students in the **State** **Science Talent Search Examination (STSE)-2007** organized byDepartment of Science and Technology (Govt. of Rajasthan).
* Secured an All India Rank of **100** in **National Science Olympiad** (2009) , **134** in National Science Olympiad (2007) and an All India Rank of **104** in **International Mathematics Olympiad** (2009).
* Was among the **top 1%** students from the state of Rajasthan in **National Standard Examination in Chemistry (2008)** organised by Indian Association of Chemistry Teachers.

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| INTERNSHIPS AND PROJECTS UNDERTAKEN |

* **Search Engine Optimization** *Guide-Mr.Ritam Banerjee* *April-July,2011*

- To optimize the traffic on the website [www.ritambanerjee.com](http://www.ritambanerjee.com) of Ritam Banerjee Photography, Mumbai.

-Learned HTML coding and researched on Search Engine Optimization.

-Initiated the implementation process for the traffic optimization on the website.

* **Game Module Designing for IOS** *Guide – Mr Anirudh Swarnkar April-July,2011*

**-**To design an online game “Battle Ground” for IOS for Pipedream Labs, Mumbai.

**-**Designed the game environment to simplify the algorithm and improve the smoothness of the game.

* **Energy analysis of Corn Ethanol** *Guide:Prof. Ganesh Anuradha July-Nov,2010*

-To determine the net energy value of ethanol.

-Calculated the difference in energy output of utilizing bio-ethanol in engines and the energy utilized in growing corn and converting it into bio-ethanol.

-Concluded that under the vast majority of conditions, the amount of energy contained in ethanol is significantly greater than the amount of energy used to make ethanol, even if the raw material used is corn.

* **Inspection of Chemical Manufacturing Plant**  *Guide :Prof Sanjay Mahajani March,2010*

-Analyse the manufacturing process of sulphuric acid and methanol for a day at RCF Plant, Chembur.  
-Successfully completed a training session to understand the manufacturing of Methanol and Sulphuric Acid.

* **Mini National UID for IIT Campus** Guide: *Prof. Deepak B Phatak July-Nov,2009*

**-** Generation of Unique Identity System for all the residents living in the IIT campus, on the lines of the Government of India’s project of setting up a Unique Identity System.

**-**Wrote the code in C++ environment for the usage of UID in recording attendance, access control, conducting online exams etc.

**-**Currently being used by the academic section of IIT Bombay for recording attendance.

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| SOFTWARE SKILLS |

* **Programming Languages**: C/C++, MATLAB ,HTML
* **Software proficiency:** M S Office ,Sony Vegas ,Adobe Photoshop
* **Language proficiency** : English, Hindi
* **Operating Systems** : Windows, Linux (Ubuntu)

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| COURSES UNDERTAKEN |

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| Introduction to C++ | Fluid Mechanics | Fundamentals of Heat and Mass Transfer |
| Thermodynamics | Transport Phenomena | Chemical Reaction Engineering |
| Numerical Analysis | Solid Mechanics | Introduction to Electrical Engineering |

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| POSITION OF RESPONSIBILITY |

* **Film And Media Secretary**, Hostel 7,IIT Bombay (August 2010- April 2011).
* Coordinator, Dance and Photography Competitions, **Mood Indigo, 2010** (IIT Bombay’s annual cultural festival).
* Coordinator, Public Relations, E Summit 2010,The Entrepreneurship Cell, IIT Bombay.
* Coordinator, Photography workshop, **Techfest 2011 (**IIT Bombay’s annual technical festival).

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| EXTRA-CURRICULAR ACTIVITIES AND ACHIEVEMENTS |

* Assisted **Mr Ritam Banerjee**, an international photographer from Mumbai on his professional shoots(April-July,2011).
* Represented hostel in Kho-Kho and Badminton General Championships (2010-2011).
* Got 3rd Prize in Gyrations (Annual Inter Hostel team dance Competition, IIT Bombay, 2010).
* Made a **remote controlled wireless car,** whose objective was to complete a given track in minimum amount of time (F1 Race, IIT Bombay, 2010).
* 2nd runner up in the Impromptu Situational Acting and Photography Competitions at cultural fest for the freshmen of the institute, 2009.
* Taught a group of village students in Kota as a volunteer for **SOS Children’s Village Society** (2006).
* Worked as a volunteer in Kota for **Help Age India** working for the betterment of lives of old aged people (Dec,2004-2005).