



Rohit Aakash
Metallurgical Engineering and Materials Science
Indian institute of Technology, Bombay
Male
Specialization: Metallurgical Engineering and Materials Science

110110042
UG Second Year

DOB: 13/01/1992

Examination	University	Institute	Year	CPI/%
Graduation	IIT Bombay	IIT Bombay	2012	6.78
Intermediate/+2	CBSE	Adwaita Mission High School, Banka	2010	77.2%
Matriculation	ICSE	Saint Joseph's School, Bhagalpur	2008	96.0%

SCHOLASTIC ACHIEVEMENTS

- Qualified IIT Joint Entrance Examination 2011 and secured a 99.98 percentile among 0.48 million candidates appearing for the exam.
- Recipient of IIT Bombay Heritage Scholarship.
- Secured 96% in ICSE 10th boards with 100% marks in Computer Applications.
- Awarded Merit Certificate for distinctive performance in first nationwide Biotechnology Olympiad conducted by EduHeal Foundation (Aug 2006) and certificate of successful participation in 4th National Cyber Olympiad (Aug 2004) and 9th National Science Olympiad (Nov 2006)

KEY ACADEMIC PROJECTS

Ceramic Tape casting using Doctor Blade

[Jan'13 – Apr'11]

Course: *Experimental Techniques in Materials Science*

Prof. P. Bhargava

- Preparation of ceramic tape slurry using Titanium Oxide, Lithium Carbonate, Zirconia and Alumina as key ingredients
- Characterised and differentiated Green and Sintered Ceramic Tape using SEM with EDS, XRD, TGA, and molecular weight determination using dynamic light scattering
- Analysed the mechanical strength of both the tapes by analysing the level of ceramic loading, particle size distribution and chemical reaction between particle surface and organic binder

Reversibly Switching Surfaces

[April'12]

Course: *Materials and Technology*

Prof. Ajay Singh Panwar

- Designed a working model of surfaces which show anomalous behaviour in their wettability in response to external stimulus.
- Prepared a presentation for the same which was appreciated by the professors

Determination of Bravais lattice through a program in C++

[Oct'11 - Nov'11]

Course: *Computer Programming and Utilisation*

Prof. M.P. Gururajan

- Programmed a code in C++ capable of identifying the Bravais lattice of a given cubic crystal based on the Intensity vs. 2θ data obtained from the X-Ray Diffraction Crystallography.
- Generated a plot of the Intensity vs. 2θ for the same using GNUPlot.

POSITIONS OF RESPONSIBILITY

System Administrator, Hostel 13, IIT Bombay

[Apr'13 – Present]

- Installed 7 new systems in the computer room ensuring 10 running PCs in computer room using hostel funds judiciously
- Updated and maintained the hostel website on www.h13iitb.wordpress.com and gymkhana.com/~hostel13/

Web Secretary, MEMS, IIT Bombay

[July'12 – Present]

- Designed a completely new website department to be hosted on www.met.iitb.ac.in based on PHP with online forms for various department activities with the assistance of the department system administrator.
- Assisted in management of www.met.iitb.ac.in, visited globally by MEMS research scholars for latest research projects and information and containing the database of all students and professors of MEMS, IIT Bombay

COURSES UNDERTAKEN

Core Courses

Materials and Technology, Transport Phenomena, Mechanics of Materials, Structure of Materials, Colloidal & Interfacial Science, Metallography & Structural Characterisation Lab, Kinetics of Processes, Thermodynamics of Materials, Experimental Techniques in Materials Science

Additional Courses

Economics, Data Analysis and Interpretation, Computer Programing and Utilization, Introduction to Electrical & Electronic Circuits, Theory of Machines and Machine Design

TECHNICAL SKILLS

Operating Systems: Windows, Linux and Mac

Programming Languages: C, C++, Java

Web Development: HTML, CSS, JavaScript, PHP and Adobe Dreamweaver

Software Skills: Microsoft Office, Adobe Photoshop

EXTRA-CIRRICULAR ACTIVITIES

Social Service

- Worked as an active member of the National Service Scheme (NSS), Events Department, IIT Bombay.
- Participated in Cloth Collection Campaign conducted twice in a year gathering an overall collection of 1500 kilograms of clothes from all over the institute.
- Designed toys from scrap objects for poor children

Cultural events

- Actively involved in **PAF** (Performing Arts Festival)-2013 & 2012 mainly in the development of whole set of drama.
- Worked as an Organizer, Mood Indigo, Asia's largest college cultural festival with a footfall of over 80,000 students and over 800 colleges from all across India.