Harsh Kiran Nisar 09004042
Civil Engineering UG Third Year (B.Tech.)
Indian Institute of Technology, Bombay Male
DOB: 15/06/1991

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2011	7.96
Intermediate/+2	CBSE	Vidya Mandir Sr. Sec School	2009	85.00
Matriculation	ICSE	LPHS	2007	91.00

Academic achievements
- Secured an All India Rank of 906 in IIT-JEE 2009
- Awarded the Certificate of Merit for excellence in Chemistry in school 2005
- Pursuing a minor degree in Industrial Design, at IDC, IIT Bombay
- Was ranked among the top 1% of the students who appeared for AIEEE '09 in Maharashtra
- Scored 95.5% in Math and Science in Class 10

Practical Training and Internships
- Site training at Jaipur Metro under DMRC, Jaipur – May-June, 2011
    a. Examined the design parameters of pile loading and concrete composition under the Design Section of Jaipur Metro.
    b. Conducted laboratory tests and calculated the tests results on the Mansarovar Yard site.
    c. Compiled a report on the design details of the viaduct and 11 Jaipur Metro stations.
    d. Assisted the Junior Engineers with on-site operations
    e. Attended the Station Roof design proposal presented by the engineering and architecture firm Construction Catalysers
- Work Visit at CWPRS (Central Water and Power Research Station), Pune – February, 2011
    a. Visualized various features in Indian ports through the Hydraulic Models of the Mumbai Port and the Jawaharlal Nehru Port, and the Kandla Port
    b. Observed the design Breakwaters employed to survive the impact of sea waves
    c. Went through Hydraulic models of Spillway and Energy dissipation methods in Hydro-electric projects
    d. Saw the standardization and design Flow Probes used on marine vessels
- Work Visit at IT Business Park, Mumbai (Sterling Constructions) – August, 2010
    a. Observed post-tensioning techniques in reinforced concrete structures
    b. Witnessed the basic building construction techniques applied in modern structures
    c. Interacted with the engineers and the construction workers

Projects Undertaken
- Finger Print Basis Identification in C++ (*Dr. D. B. Phatak, CSE*) – July to November, 2009:
    a. Coded a program to check the uniqueness of the enrolled subject in every session
    b. Accomplished task given to our team and contributed in the **Unique Identity Allocation Project** which was the prototype project upon which the AADHAAR UID Card is based**.**
- Design of a Locking Mechanism (*Prof. B. K. Chakravarty, IDC*) – September to November, 2010
    a. Designed and built an enlarged plaster prototype of the spring based locking mechanism

- Sharing Taxi System for Mumbai Suburbs,(*Prof. Anirudha Joshi ,IDC*)- January to April, 2011
    a. Interviewed Taxi and Auto-rickshaw drivers and passengers for inputs
    b. Designed a New Metre Card, Mobile and Web Application Interface Structure for users

Technical Labs Experience

- <u>Design Lab</u>: Using IS Codes to establish member dimensions, reinforcement details, concrete grades
- <u>Soil Mechanics Lab</u>: Identifying the type of soil, and finding the permissible loads on a particular strata of soil
- <u>Geodesy Lab</u>: Studied surveying and the application of instruments like the theodolite, total station, GPS
- <u>Hydraulic Design Lab</u>: Familiarizing with basic hydraulic components like channels, Dam Seepage cross-sections and surface waves
- <u>Solid Mechanics Lab</u>: Assessment of internal forces and strains of a body and drawing stress-strain curves of basic materials as steel
- <u>Fluid Mechanics Lab</u>: Practical study and verification of laws of Fluid Mechanics
- <u>Experiments and Measurement Lab</u>: Learning basic electric components used in scientific measurement and experience with instrumentation electronics and data acquisition
- <u>Engineering Graphics & Drawing</u>: 3D geometry visualization, section views and technical drawing
- <u>Workshop Practice</u>: Studied and performed various mechanical techniques like welding, fitting, lathing and shaping

Core Courses	Others
Engineering Mechanics	Computer Programming and Utilization
Fluid Mechanics	Electric and Electronic Circuits and Electricity and Magnetism
Hydraulic Engineering	Linear Algebra, Calculus and Differential Equations – I and II
Solid Mechanics	Economics, Environmental Studies and Psychology as a part of
Geodesy	Curriculum from Humanities and Social Service Dept. (HSS)
Structural Mechanics – I	Introduction to Design, Design Issues and Human Computer
Structural Mechanics – II	Interaction as a part of Minor in Industrial Design Centre (IDC)
Soil Mechanics – I	
Design of Structures – I	

Positions of Responsibility

<u>Co-ordinator, Hospitality, Mood Indigo 2010</u>[Apr – Dec '10]

Key Extra Curricular Activities

- Was a part of NSS(National Service Scheme). Worked under the Group of Rural Activities
- Visited a remote village, Kapshi, to perceive the issues rural India, the way sustainable techniques are employed by villagers. Familiarized with the concept 'Shram Daan'
- Involved in teaching academically weak school kids of the Kendriya Vidyalaya, IITB in the Educational Outreach program
- Participated in Poor-ani Jeans Clothes Collection Initiative to help collect used clothes for donation to needy
- Member of the winning production team in Performing Arts Festival, 2011(PAF)
- 1ST Prize in Treasure Hunt event in Freshizza (Inter Freshers event in IIT)
- Active Member of Pixels – Photography Club of IITB

Computer Skill Set

Software: MS Office, Adobe Photoshop/GIMP, SCILAB, AutoCAD

Familiar with Windows, Linux and Mac OSX systems