MOHAMMAD QADISH **12D260005**
Engineering Physics **UG Second Year**
Indian Institute of Technology Bombay **Male**
Specialization: Nanoscience **DOB: 11/10/1994**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2014	7.25
Intermediate/+2	CBSE	Mission Academy Inter College	2012	91.00
Matriculation	CBSE	Hamdard Public School	2010	9.80

SCHOLASTIC ACHIEVEMENTS

- Stood among the top **1.2%** out of **0.53** million applicants in **IIT-JEE** 2012 *[Apr'12]*
- Stood among the top **0.7%** out of **1** million applicants in **AIEEE** 2012 *[May'12]*
- Secured **1st** position in Intermediate/+2 in district *[May'12]*

PROJECTS

Computer Programming *[OCT-NOV'13]*

Guide:*Prof. Abhiram Ranade*(Department of Computer Science and Engineering)

- Programmed a code using **C++** for **simulating** a **virtual sports league** which leads to successive rounds and decides a winner using **recursive functions**
- Applied the properties of **multi-dimentional arrays**, classes, **structures** and graphical packages

Non-Linear Dynamics *[Jul'13]*

Guide**:***Prof. Puneet Parmanand*(Department of Engineering Phyics)

- Analysed **logistic map** and **bifurcation** diagrams of doubling period route to chaos using simulations in **MATLAB**
- Studied the gradual **synchronisation** in chaotic system like **bench pendulum, chua circuit**

Electronics Component *[Jul-Aug'13]*

Guide:*Prof. Pradeep Sarin*(Department of Engineering Physics)

- Analysed **diode** as a **clamper**, half and full wave **rectifier** by giving AC input from a **function generator** and getting output on **PC** oscilloscope
- Examine the behaviour of active and passive elements at different frequencies and AC input voltage
- Prepared a report on **transistors** using it as switch by connecting a **LED** in collector circuit

Crystal Radio *[Aug'13]*

Guide:*Prof. Parinda Vasa*(Department of Physics)

- Profoundly understood the conversion of power of **radio waves** to energy of **EM** waves
- Lead a team of four in preparing a crystal radio out of enamel coated magnetic wire, plastc bottle, germanium diode and other easily available stuffs

TECHNICAL SKILLS

- **Programming Languages:** Java, C/C++/C#, HTML, CSS, JavaScript, HTML5
- **Application Software:** Microsoft Office, Matlab, Adobe Photoshop, After Effects, Solid Works, Autocad

RELEVENT COURSES

Department Courses	Quantum Mechanics, Modern Physics, Electricity and Magnetism, Classical Mechanics
Mathematics	Calculus, Linear Algebra, Differential Equations, Data analysis and Interpretation, Complex Analysis
Technical labs	Physics Lab, Chemistry Lab, Mechanical Workshop and Engineering Drawing
Others	Computer Programming and Utilization, Electrical and Electronic Circuits, Economics

EXTRA –CURRICULAR ACTIVITIES

Technical

- Engineered a wireless line following bot using Arduino Uno in Line Follower
- Worked on 8-bit **ADC** and **DAC** parts of a microcontroller and figured out a the practical limitations of digital to analog conversion

Sports

- Completed a 10-month course in **Atheletics** certified by **National Sports Organization**
- Selected among top 30 cricket players of the institute
- Won an inter-hostel cricket league as well as an intra-hostel cricket league

Cultural

- Completed a one month **mountaineering course** with **A-grade** in **ABV** institute of **mountaineering** which includes trekking**, rappling, jumarring,** rock climbing and **ice crafting**
- Organiser at **Mood Indigo 2012,**Asia's largest cultural festival
- Active member of insync, the **dance club** of IIT Bombay
- Represented the hostel for institute dance competition