

ROMIL JOHRI

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EDUCATION

Year	Degree/ Certificate	Institute/ School, City	CGPA/ %	Rank
2006-2011	Dual Degree: Electronics and Electrical Communication Engineering	Indian Institute of Technology, Kharagpur	8.64/10	5/26
2006	Class XII: CBSE	Delhi Public School, RK Puram, New Delhi	90.8%	-
2004	Class X: CBSE	Laxman Public School, Hauz Khas, New Delhi	94.2%	2 nd in school

MAJOR ACADEMIC ACHIEVEMENTS

1. Successfully cleared the **first level** of the examination for **Financial Risk Manager, 2010**.
2. Certified for being among the **top 1%** students getting **100% in Science** in class **10th**, 2004.
3. Secured an All India **152nd** position in **National Science Olympiad**, 2005-2006.
4. Secured an All India Rank of **569** in the **Joint Entrance Exam** for **Indian Institute of Technology, 2006**.

RELEVANT COURSES AND SOFTWARE SKILLS

1. **RELEVANT COURSES**: Introduction to Financial Management, Industrial Economics, Design and Analysis of Algorithms, Probability and Stochastic Processes, Programming and Data Structures and Linear Algebra.
2. **SOFTWARE LANGUAGES** : C, C++, C#, Java, MATLAB and MS SQL.

SUMMER INTERSHIPS

1. **May -July, 2010: Layout development for the circuit of a Neuromuscular Stimulator, University of Liverpool, UK.**

WORK DONE	<ul style="list-style-type: none">• Developed the layout using the Eagle Layout Editor for the neuromuscular stimulator.
ACHIEVEMENTS	<ul style="list-style-type: none">• Improved the stimulator's efficiency to nearly 100% by rectifying the instability due to the oscillator used.• The stimulator is currently being successfully used for research work in the University of Liverpool.

2. **May- July, 2009: Development of a bipolar neuromuscular stimulator, University of Liverpool, UK.**

WORK DONE	<ul style="list-style-type: none">• Developed the bipolar stimulator which produced bipolar pulses operating for a large range of frequencies.
ACHIEVEMENTS	<ul style="list-style-type: none">• Improved its efficiency to 90% as compared to 20% efficiency of the earlier designs.• The bipolar stimulator has been used for research work in the University of Liverpool.• Awarded an 'Excellent' in the training certificate by my training guide.

3. **May-July 2008: Internship in Juniper Networks, Bangalore, India.**

WORK DONE	<ul style="list-style-type: none">• Worked on electronic circuit design of Ethernet Line Cards and the Power over Ethernet technology.
ACHIEVEMENTS	<ul style="list-style-type: none">• Designed the layout for the control board of POE based devices which was approved as a prototype.

4. **May-July, 2007: Medical Shop Automation, HCL Technologies, Gurgaon.**

WORK DONE	<ul style="list-style-type: none">• Development of a Java based user interface incorporated with a database based on SQL.
ACHIEVEMENTS	<ul style="list-style-type: none">• It successfully managed the accounts and data of various medical firms dealing with the company.

ACADEMIC PROJECTS

1. **July 2009 -present: Fabrication of a piezoelectric based valve less micro pump, Indian Institute of Technology, Kharagpur.**

WORK DONE	<ul style="list-style-type: none">• Fabrication of the micropump using Micro Electro Mechanical Systems, to be used for improving the maneuverability of the satellites.
ACHIEVEMENTS	<ul style="list-style-type: none">• It is the first such pump being developed in India to be used in one of the future Chandrayaan Missions.• The project is sponsored by the Indian Space Research Organisation.

2. **May-July, 2007, Nov-Dec, 2007: Preliminary Ship Design Software, Indian Institute of Technology, Delhi.**

WORK DONE	<ul style="list-style-type: none">• Development of the software for ship design using Java and SQL, based on the parameters specified.
ACHIEVEMENTS	<ul style="list-style-type: none">• The software has been successfully used for research work.

EXTRA CURRICULAR ACTIVITIES

1. Participated in the **Robotix** event in the tech-fest of IIT Kharagpur '**Kshitij**', **2007**, reached the quarter finals.
2. Developed a **business plan 'Kiran'**: selected in **TechKriti**, B-Plan Competition IIT Kanpur, 2009.
3. Member of **KRAIG** (Kharagpur Robotics and Artificial Intelligence Group) (2006-2008).