

# ABHISEK BERA

## PERSONAL PROFILE:

Name: Abhisek Bera  
 Roll No: 07MF1012  
 Dept. of Mechanical Engineering,  
 IIT Kharagpur.  
 Date of Birth: 16<sup>th</sup> January, 1990  
 Tel. No.: +919477229461  
 E-Mail : [abhisekbera@gmail.com](mailto:abhisekbera@gmail.com)

Address: Room No. : D241  
 Rajendra Prasad Hall of Residence  
 IIT Kharagpur,  
 Kharagpur, West Bengal,  
 PIN: 721 302,

## EDUCATIONAL PROFILE:

DEGREE / CERTIFICATE	UNIVERSITY / BOARD	YEAR OF PASSING/ CURRENT YEAR	MARKS
B. Tech. in Manufacturing Science & Engineering (undergoing)	Indian Institute of Technology, Kharagpur, India	4 <sup>th</sup> Year (current year)	<u>CGPA</u> 8.5/10 <u>YEAR WISE GPA</u> 3 <sup>rd</sup> year 9.29 2 <sup>nd</sup> year 8.49 1 <sup>st</sup> year 7.77
Class XII	West Bengal Council of Higher Secondary Education	2007	80.6% (Math: 96 %, Physics: 92%, Chemistry: 94%)
Class X	West Bengal Board of Secondary Education	2005	95.25 %

## COURSES TAKEN:

### Completed :

- Heat transfer
- Solid Mechanics\*
- Thermo-Fluid Science
- Design of Machine Elements\*
- Machine tools and machining\*
- Non-Traditional Manufacturing Processes
- Basic Electronics \*
- Probability and Statistics
- Computational Fluid Dynamics
- Fluid mechanics
- Mechanisms & machines\*
- Robots & Computer Controlled  
Machines
- Material Science
- Dynamics
- Computer Software
- Operation Research I

### Pursuing in Seventh Semester ( to be completed by winter 2010):

- Advanced Fluid Mechanics
- System and Control

- Computer Integrated Manufacturing\*
- Electrodynamics

\* - Include laboratory component

‘\_’-Underlined are the subject of interest

#### AREAS OF INTEREST:

- ❖ **Micro-scale Fluid flow and Heat transfer**
- ❖ **Solid Mechanics and Design of machine elements and machine tool**
- ❖ **Non-traditional manufacturing**

#### ADDITIONAL INFORMATION:

- ❖ Accustomed with the Operating System: Windows, Linux
- ❖ Programming Languages known : C
- ❖ Software Known: MATLAB, EES (software for Thermofluid Science), Autocad
- ❖ Languages known: English, Bengali, Hindi.

#### ACADEMIC ACHIEVEMENTS:

- ❖ Secured 19<sup>th</sup> position in board exam at 10<sup>th</sup> level in West Bengal Board of Secondary Education
- ❖ Qualified IIT JEE in first attempt securing an AIR of 1658 among 2.5 lakh applicants.
- ❖ Qualified WB JEE securing a rank of 162 among 50,000 applicants.

#### PROJECTS :

- ❖ A research project on micro-droplet transportation on a rotating platform to make a low-cost pathological-diagnostic system under Prof. Suman Chakraborty, Mechanical Department, IIT KGP (March,2009).
- ❖ Research project on contact-line dynamics of a droplet under centrifugal body force.(Dec.,2009)
- ❖ Successfully completed summer internship in the area of digital micro-fluidics to make a programmable platform of quantitative point care analysis of a broad range of bio-markers, in **University of California, Berkeley** (May,2010).
- ❖ B-tech project is on CFD modeling of the multi-directional flow mixing in a pneumatic microvalve.

#### EXTRA-CURRICULAR ACTIVITIES:

- ❖ I was part of the **bronz winning open-IIT Hindi Dramatics team of Rajendra Prasad Hall of Residence** in 2009.
- ❖ I was also an active member of **the silver winning product design** inter-hall team of my hall in the year of 2010.
- ❖ Recipient of **award of excellence** for outstanding performance in inter-house product design competition in the year of 2009.
- ❖ Volunteer in the Asia's largest Techno-management fest Kshitij in the year of 2008 (accommodation team)
- ❖ As a member of **National Service scheme** I have collected old cloths for ten under-privilege families.
- ❖ I have headed a team to collect the data on water-resource and to do a project on ground water resource management of an entire village near IIT Kgp.
- ❖ Became district level Physics quiz champion in the year of 2006.
- ❖ My hobbies are playing **table-tennis** and **free-hand sketching**.