

Ankur Abhishek Electrical Engineering

Indian Institute of Technology, Bombay

Specialization: Communication & Signal Processing

09D07035

UG Third Year(Dual Degree)

DOB: 21 Dec 1990

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2011	6.18
Intermediate/+2	CBSE	Central Academy	2008	78.60
Matriculation	ICSE	Don Bosco Academy	2006	92.60

INTERNSHIP AND WORK EXPERIENCE

TATA MOTORS ENGINEERING RESEARCH CENTRE, PUNE

[May'11 - July'11]

- IMPLEMENTATION OF CAN BOOT LOADER FOR PIC18F4431 THROUGH SPI PROTOCOL
 - Coded Boot loader for PIC18F4431 Microchip Microcontroller
 - Flashed the code using External CAN controller chip
 - Worked on BOSCH and PI(open) ECU's
 - Studied the communication of Controller Area Network(CAN) in automobiles
- TATA NANO-EV RANGE EXTENDER PROJECT
 - Did a comparative study of EV's (Toyota Prius, Chevy Volt, Nissan Leaf primary subjects)
 - Sampled vehicle parameters from EMS,BMS & ECU's of NANO (EV) using INCA
 - Proposed the Motor ratings and type optimal to above sampling data
 - Proposed a Battery(lead acid)-Ultracapacitor model to enhance battery recharge cycles
 - Simulated the above proposed model in Simulink

KEY ACADEMIC PROJECTS

OPTICAL SIGNAL TRANSMITTER:

Course Project

Designed a Photo Intensity sensor and actuator combination

[Jan'11-Apr'11]

- Analog Signal was transmitted optically, received and decoded as Digital signal
- Demonstrated its use in Traffic Light Controller

BASIC CALCULATOR:

Course Project

Built a calculating device under constraints of using only simple Integrated Circuits

[Jan'11-Apr'11]

- Device was capable of performing simple mathematical & logical calculations
- Device took keyed inputs from user and displayed the result on 7seg. Display

MINI NATIONAL UID FOR IIT CAMPUS:

Prof. D.B.Phatak

- The project was designed to handle activities in the institute like registration of new students, automatic generation of their e-mail ids, verification of their personal details and opening their accounts in the Central Library of IIT Bombay by taking their fingerprints using biometric sensor
- Led a team of 8 members and efficiently cooperated with other groups of the project
- Developed an efficient algorithm to keep the binary database of all the users updated
- Integrated different sections of the project to make a working application

TECHNICAL SKILLS

Languages: C, C++, Java, Assembly (8085 & PIC18F4431)

Softwares : Matlab, Scilab, INCA, LABVIEW, Simulink, SEQUEL, MPLAB IDE, DAQ

Environment: Ubuntu, Fedora, Windows

TECHNICAL ACTIVITIES

• Solar Splash Techfest, 2010

- Finished in Top 20 out of over 1200 participants
- Designed a boat (Aurora) which used ambient light to run its propellers
- It housed a energy storing mechanism such that it could run even in absence of light
- Was equipped with automated rudder

Formula1 RC Car Race

Institute Competition

- Secured 5th position among 83 entries
- Designed a differential drive remote controlled car controlled by wireless radio communication
- Had Anti-Tumbling, Obstacle Deflector mechanisms and other techniques to overcome the challenges
 of the circuit
- Vehicle was completely splash proof and robust

• Line Bot Institute Competition

- Was one among 4 teams in the entire institute who completed the challenge
- Designed a bot which followed a black strip on white surface
- Employed Photodiode and LED combo for sensors
- Employed logic circuits to overcome crisscrosses

POSITION OF RESPONSIBILITY

- Co-ordinator in MOOD INDIGO 2010 , IIT Bombay's cultural festival
 - Led a team of 13 organizers
 - Organized the rostrum for Katatonia's performance
 - Channeled the guests into their respective accommodation facilities
- General Secretary in school's STUDENT COUNCIL COMMITTEE
 - Colligated between the Students and school Administrative Body
 - Proposed 2 reforms in school charter
 - Held the post for two consecutive years

AWARDS AND ACCOLADES

- Recipient of HINDUSTAN PRATIBHA SAMMANN by Sh. NITISH KUMAR, honorable Chief Minister of Bihar
- Secured an All India Rank of 1030 in NATIONAL SCIENCE OLYMPIAD
- Recipient of National Talent Scholarship funded by HUMAN WELFARE TRUST OF INDIA
- Recipient of Merit Scholarship funded by NATIONAL EDUCATIONAL COUNCIL
- Secured All India Rank of 12 in NATIONAL SCHOLARSHIP EXAM conducted by MILLENIUM ART CLUB And CHARITABLE SOCIETY
- Awarded cash award by Triumphant Institute of Management Education Pvt. Ltd in 2009

EXTRA CURRICULAR ACTIVITIES

- Member of FSAE IITB Team 2012
- Course in Aerobics under National Sports Organization
- Reached Quarter Finals of INSTITUTE CARROM GC (2010-2011)
- Secured 3rd position in Inter School CARROM(singles) 2003-2004
- Reached the Quarter Finals of Inter School CARROM(singles & doubles) 2004-2005
- Find keen interest in doctoring electronic equipments