

Nitesh Bharadwaj GUNDAVARAPU

PERSONAL DATA

PLACE AND DATE OF BIRTH: Hyderabad, India | 04 October 1993
ADDRESS: WB8, Vindhyachal Hostel, IIT Delhi, New Delhi, India - 110016
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EDUCATION

2011-2015 Bachelor of Technology in Electrical Engineering (Power)
Indian Institute of Technology, Delhi
CGPA: 9.068/10

FALL 2013 Exchange Semester in Electrical Engineering
Insa de Lyon, France

JULY 2011 Intermediate at Sri Chaitanya Junior College, Hyderabad | Final Grade: 97.5%

RELEVANT COURSES

ELECTRICAL ENGINEERING	Digital Electronics, Analog Electronics, Signals and Systems, Signal Processing, Power Electronics, Electrical Drives
COMPUTER SCIENCE	Data Structures, Computer Architecture, Networks, Databases and Data Mining
MATHEMATICS	Probability and Statistics, Operational Research, Introduction to Analysis and Differential Equations, Introduction to Algebra and Matrix Analysis

WORK EXPERIENCE

JULY-SEPT. 2013	<i>The Freenet Project - Google Summer of Code 2013</i> Developed an Android Application that can interact with a home freenet node and securely pull node references from it. Each mobile, once associated with a home node, can be used to exchange node references with a peer mobile and safely establish a connection. Gained practical experience in networks, distributed development, network security, cryptography, android development, and P2p technologies like Bluetooth, Wi-Fi Direct etc.
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AWARDS AND ACHIEVEMENTS

SEPT.-DEC. 2013	Recipient of the Charpak scholarship of excellence from the Embassy of France to pursue my exchange semester
SEPTEMBER 2013	Successfully completed the Google Summer of Code 2013 after being selected into the same
MAY 2012	Recipient of the merit certificate for being among the top 7% of the students at the end of first year
JANUARY 2012	Among one of the winners at the Windows Phone 7 Hackathon 2012
2011	Secured a rank of 742 in IIT JEE and a rank of 62 in AP State Eamcet Examination among over 200,000 engineering aspirants
2009	Recipient of the 'Student of the year' award from the Times of India Newspaper in Education Program

PROJECTS UNDERTAKEN

SEPT.-DEC. 2013	<i>Speed Control of Asynchronous Motor</i> To study and implement various digital control techniques like predictive functional control, internal model based control, RST to control the speed of an asynchronous motor under Dr. Xuefang Lin Shi.
JAN.-MAY 2013	<i>Tracking Human Motion Through Sensor Fusion</i> To improve accuracy of an indoor positioning system by utilizing the relative distance between two nodes as a feedback. To find this distance by exploiting the difference in propagation speeds between an RF and Ultrasonic signal sent concurrently from one of these devices, under Dr. Vinay Ribeiro, IIT Delhi. Gained first-hand experience in research and also the real world applications of MATLAB, Signals and Systems, DSP, Kalman Filters etc.
OCTOBER 2013	<i>Transparent Latches in Asynchronous Pipelines</i> Reviewed and critically analyzed technical papers published on asynchronous pipelines and proceeded to produce a term paper for the Digital Electronics course under Dr. Shouribrata Chatterjee, IIT Delhi
JULY-DEC. 2012	<i>Robocon</i> Designed and manufactured the robots along with the team for ROBOCON 2013, a national level robotics competition. Implemented the mechanisms of curve following on 3 wheel and 4 wheel holonomic drives. Designed and interfaced the power electronic circuits for efficient operation of PMDC and BLDC motors. Interfaced an optical mouse with arduino to get the position feedback from an autonomous robot. Interfaced an IMU with arduino to get the orientation feedback from a robot. Designed the PCBs for the robots and their interfaces
JULY 2012	<i>Yahoo HackU!</i> Made a website time tracking application that alerts the user if he/she is wasting too much time on a website, as a Chrome extension for the annual hackathon by Yahoo
JANUARY 2012	<i>Connecto</i> Visualized and ran the game of 'Connecto' in C# for the Windows Phone 7 Hackathon

LANGUAGES

FLUENT: English, Hindi, Telugu
BASIC KNOWLEDGE: French

COMPUTER SKILLS

Programming Languages: Java, Python, HTML, SQL, MATLAB, Processing, javascript, C#
Platforms: Windows, Linux, Android, Arduino, Windows Mobile
Frameworks: jQuery, Simulink, Android SDK, NDK, KNIME
Hardware: VHDL, SPIM

INTERESTS AND ACTIVITIES

Technology, Logical Argumentation, Chess, Cricket, Travelling