SIDDHARTH SHARMA

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EDUCATION

University of Delhi, Netaji Subhas Institute of Technology (NSIT) *June 2014*

Bachelor of Engineering (Instrumentation and Control Engineering)
Overall Percentage – 63 %

Bachelor's Thesis Project – Implementing Speaker Recognition Using Student's t-Mixture Modeling
Bachelor's Thesis Project Score – 80 %

WORK EXPERIENCE

Zenatix Solutions Pvt. Ltd. August 2015–Present
Technology Associate (Level 2) *Gurgaon, Haryana, IN*

- Zenatix is a seed-funded IoT-based startup that provides energy analytics to businesses, thus helping them achieve 10–12% reduction in energy consumption; Zenatix is featured in "16 Promising and Innovative Startups to Watch in 2016" – The Economic Times
- Spearheading firmware development in a two-member team dedicated towards development of new product that will help the company expand horizontally into B2C space; Directly reporting to the CTO
- Awarded "Employee of the Month" for September 2015

The Smart Cube November 2014–June 2015
Analyst *Noida, Uttar Pradesh, IN*

- Worked in the business research and data analytics firm as part of the team responsible for aiding Blue-chip Consulting Firms with IT and technology-related advisory
- Projects – Gauged the feasibility of migration from a mainframe environment to distributed servers for a Fortune 50 company (awarded "Kudos Award" in February 2015 for this); provided insights to a Fortune 500 company for the integration of Internet of Things to develop products that help monitor employee hygiene and health through gamification, employee absenteeism, etc.

mLabs Research September 2012–May 2013
Research Intern *New Delhi, IN*

- mLabs is a research-based startup that is committed to develop innnovative and disruptive technologies around memristors and Internet of Things
- Worked in the three-member prototype development team of Bit-by-Bit (B3) – a product that enables everyone to design Internet of Things enabled hardware; B3 provides a fully automated data acquisition and analysis system, along with an arbitrary waveform generator, using a RaspberryPi-based board; the concept is patented and supported by Microsoft Ventures in London

RESEARCH AND PROJECT EXPERIENCE

Solar Position Algorithm (SPA) on RaspberryPi August 2014
Mentor: Dr. Smriti Srivastava, Dean, Undergraduate Studies, NSIT

- Designed the hardware for a standalone RaspberryPi-based device that makes SPA calculations, such as solar zenith angle and azimuth angle, at remote locations

Viterbi School of Engineering, University of Southern California June 2013–August 2013
Summer Research Intern *Los Angeles, CA, USA*

- Worked in the BioRC research group led by Dr. Alice C. Parker; the research group targets to mimic the human brain's neuronal structure through analog VLSI circuits

- Developed algorithm to automate the synthesis of analog neuromorphic circuits inorder to mimic the neuronal structure of C.Elegans worm
- Presented poster titled "Automatic Neuromorphic Circuit Connection Software" at Ming Hsieh Department of Electrical Engineering

Centre for Electronics Design and Technology, NSIT December 2011–July 2012
Student Researcher *New Delhi, IN*

- Gained experience in PCB Design and Fabrication
- Projects – Single player "Pac-Man" game on Digital Storage Oscilloscope (DSO); Development of Non-invasive heart-rate monitor; "Snake" game on 8x8 LED Matrix; PCB design and fabrication for 5VDC voltage-regulated power supply with foldback current limiting

Bosch Chassis Systems, Gurgaon Plant June 2011–July 2011
Summer Trainee *Haryana, IN*

- Worked on project titled "Implementation of Poka-Yoke Using Electronic Sensors" – design and implementation of a PLC panel for Poka-Yoke on riveting machine in the drum-brake house of the manufacturing plant
- Wrote review paper about the project that won First Position at Kriti – Paper Presentation Competition during Innovision 2012, the annual technical fest of NSIT

LEADERSHIP EXPERIENCE

Crescendo – Music Society of NSIT June 2012–May 2013
President

- Led a 50-member team to a successful stint at Rendezvous 2013, Annual Cultural Fest of IIT Delhi—2nd position in Solo Western Vocals, 3rd position in Solo Instrumentals and participation in Group Western Vocals
- Successfully organized Crescendo Eve in September 2012, with 15 musical performances of varied genres by society members

TECHNICAL SKILLS

Programming	C/C++, Python, MATLAB, VHDL, Processing, Assembly, LaTeX
Software Tools	Eagle CAD, PSpice, Cadence Virtuoso, LabVIEW
Hardware	Arduino, RaspberryPi, Atmel AVR, ARM Cortex M3 (with TI StellarisWare), PCB Design, Oscilloscopes
Operating Systems	Linux (Ubuntu and Raspbian), Windows

EXTRA-CURRICULAR ACTIVITIES

- Playing the bass guitar
- Member of college basketball team from 2010 to 2012