

Sarnaduti Brahma | CV

216, Aryabhatta Hall, Indian Institute of Technology Patna – Patna 800013 – India

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Date of Birth: 21/10/93, Passport No: K5201327, Valid Upto - 30/08/22

Education

Indian Institute of Technology Patna

Bachelor of Technology in Electrical Engineering, CPI - 9.46/10

Patna

2012–Present

Relevant Coursework: Engineering Mathematics, Physics, Electrical Sciences (with basic electronics lab), Semiconductor Devices and Circuits, Digital Circuits and Microprocessors (including lab), Signals, Systems and Networks, Analogue Integrated Circuits (including lab), Principles of Communication (including lab), Electrical Machines (including lab), Introduction to VLSI Design (including lab), Digital Signal Processing, Control Systems (including lab) and Electronic Instrumentation (including lab)

St. James' School

Indian School Certificate (Class XII), Aggregate - 96%

Kolkata

2010–2012

St. Augustine's Day School

Indian Certificate of Secondary Education (Class X), Aggregate - 95%

Kolkata

2010

Research Work - Published Conference Paper

Conference: IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES) 2014, IIT Bombay

Title: *Analysis of Inductive Resonant Coupled WPT System using Reflected Load Theory*

Supervisors: Dr. R. K. Behera and Dr. S. K. Parida, Assistant Professors, IIT Patna

Description: Analysed magnetically resonant coupled coils for Wireless Power Transfer (WPT). Developed experimental test bed and verified the analysis using sinusoidal input, computing voltage gain and efficiency at different alignments and frequencies. Calculated efficiency at resonance, utilizing Reflected Load Theory. Observed dependence of power transfer on operating frequency, orientation and external/stray capacitances.

Vocational Experience

West Bengal State Electricity Transmission Company Limited

Summer Vocational Trainee

Kolkata

2014

Was acquainted with a modern Gas Insulated Substation, its essential parts and their functionality.

Bharat Sanchar Nigam Limited

Winter Vocational Trainee

Kolkata

2013

Was briefed through an overview of telecommunication networks, principles of digital switching, fibre optic and mobile communication, broadband, DSL technologies, intelligent network and next generation network. Participated in practical demonstration sessions on C-DOT, OFC, SDH, and broadband.

Extra-curricular Activities

- Organized **Seguace**, a line follower robot-making competition, in **Anwesha 2014**, a techno-cultural fest, **IIT Patna**
- Organized **Electro-Quiz**, a quiz competition on basic electronics, in **Celesta 2013**, a technological fest, **IIT Patna**

Computer skills

- Languages Known:** C, Java, Verilog HDL
- Operating Systems:** Windows, GNU/Linux
- Software Packages:** AutoCAD, Wolfram Mathematica, MATLAB, Xilinx ISE Design Suite, Pyxis Schematic, Synopsys Design Vision

Achievements/Awards

- Ranked **4,702** among **4,79,651** candidates in **IIT-JEE 2012**.
- Recipient of **Merit-Cum-Means Scholarship** from **IIT Patna** during both academic years *2012-13* and *2013-14*.

Interests

- Yoga and Meditation
- Reading Vedic literatures, like the Bhagavad-Gita and the Srimad Bhagavatam

Languages Known

- English, Hindi and Bengali