

JAI ANAND

Roll number : 06EE1034

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Academic Profile

Bachelor of Technology (Electrical Engineering)	Final Year	IIT Kharagpur	9.0/10
Class XII (CBSE)	2005	DAV Public School, Gaya	87.6%
Class X (CBSE)	2003	Creane Memorial High School, Gaya	94.1%

Academic Achievements

- Secured an **AIR 717** in **IIT-JEE, 2006** among 300,000 aspirants.
- Selected among **2** students to represent the city at **91st Indian Science Congress 2004** held at Chandigarh.
- Awarded **certificate of merit** for being in the **top 0.1% student** in Hindi and Social Sc. in CBSE class X.
- Selected among **4** students from the Institute for **MSE summer internship** program ,2009
- Received **MCM Scholarship** awarded by the Institute for academic years 2006-07,07-08,08-09,09-10.

Internships

- **General Electric, John F. Welch Technology Centre, Bangalore, India** (2010)
Title: Next Generation Frequency Regulator. *Guide: Rajni Burra(Lead Engineer,GE)*
 - ❖ Using inertia in rotor of Wind Turbine to stabilize the grid frequency.Worked on **MATLAB**.
 - ❖ Implemented Hardware controller in loop for simulation and performing Loads Analysis. Worked on **VisuPro**.
 - ❖ Established real time communication between controller and WT Simulator using **RT-Lab**.
- **University of Melbourne ,Australia** (May-July 2009)
Guide: Prof. SubhraKanti Dey (Department of Electrical and Electronic Engineering,University of Melbourne)
 - ❖ Analysis of Networked **control system over wireless channel**.Controller and Estimator design.
 - ❖ Used **Kalman Filter** and **Dynamic Programming** to design control policies in order to minimize LQG cost function for average power under specified power constraints.
- **Bhilai Steel Plant, India** (June 2008)
 - ❖ Study of Power Transmission,Electrical Machines-testing,Meter testing,Blast Furnace,Steel Melting.

Projects

- **B.Tech Project:** (Duration: Final Year)
A new single switch isolated DC-DC converter with two forms of transferring energy operating in CCM.
Guide: Prof Chandan Chakraborty (Department of Electrical Engineering, IIT Kharagpur).
 - ❖ Both Flyback and Forward converter are controlled by single switch. Used SG3524 for controller design.
- **Design a band pass filter and implement it using 8051 micro-controller.**
(Course:Embedded Systems,2009, Guide:Prof A. Routray , Department of Electrical Engg, IIT Kharagpur).
 - ❖ Used 8051 Programming Language to write the code for Band Pass Filter .

Relevant Courses (Apart from depth courses)

Industrial Economics, Econometric Analysis ,Probability and Statistics , Operational Research, Computer Software, Programming and data structure , Computer Architecture and Operating Systems. .

Positions of Responsibility

- **Hindi Elocution captain,Azad Hall of Residence,IIT Kharagpur,2009-2010.** (Team of 8 members).
The team won Bronze in Inter Hall Hindi Elocution.
- **Dramatics Secretary, Azad Hall of Residence,IIT Kharagpur,2007-2008.** (Team of 90 members)
The team won Silver in Open IIT Dramatics and Bronze in Inter Hall Choreography Competition.

Extra Curricular Activities

- Represented my city in **Lions International Youth Camp**,Dhanbad,Dec 2003. Won the award for **Mr. Camp**.
- Won **Silver** and **Bronze** in **Inter Hall Elocution** 2009 and 2008 respectively.
- Member of **Silver** winning team of Open IIT **Dramatics** 2007.
- **1st** in Inter School **Social Congress**. Selected to represent the city at **state level**.