

HARI PRASANNA DAS

12EE10017

Department of Electrical Engineering

+91-9002326288

hariprasanna.d3s@gmail.com

B-121, Nehru Hall of Residence, IIT Kharagpur

EDUCATIONAL QUALIFICATIONS

Degree/Examination	Institution	Year	CGPA/%
B.Tech (Hons.) in Electrical Engineering	IIT Kharagpur	2012 to Present	8.90 (Upto 7 th Semester)
AISSCE (Class XII)	Jawahar Navodaya Vidyalaya, Rangareddy	2012	95.6%
AISSE (Class X)	Jawahar Navodaya Vidyalaya, Sundargarh	2010	10/10

ACADEMIC ACHIEVEMENTS

- Among **Top 10 Department Rank Holders** (B.Tech).
- **AIR 832** in **IIT-JEE 2012** amongst approx. 5 Lakh candidates.
- **67th Rank** in Odisha-JEE (OJEE-2012) amongst approx. 1 Lakh candidates.
- Offer of Scholarship by **Ministry of Science and Technology, Government of India** for being amongst **Top 1% Students in AISSCE-2012**.
- **0.1% Merit Certificate** for Physics in AISSCE-2012.

INTERNSHIPS AND ACADEMIC PROJECTS

AIRBUS INDIA OPERATIONS PVT. LTD. May 2015- July 2015
Optimization of Cabin Architecture through innovative proposals in Auxiliary Heating System and Water & Waste Management System

- **Formulated and Designed the Intelligent Automatic Control** of a weight saving proposal with **183.7 kg saving per A350-1000** aircraft.
- Proposal **accepted by Airbus for application of a PATENT**.
- Unanimously nominated by team to support 2 live projects (**A350-90 GAM Elaboration and A350-1000 Model Design**).

ELECTRICAL SUB-STATION AUTOMATION AND DESIGN OF A TRAINING SIMULATOR Dec 2014- Jan 2015
(Supervisor- Jethro Adams, Senior Protection Engineer, SA Power Networks, Australia and Prof. A.K. Pradhan, IIT Kharagpur)

- Project aimed to have a real time simulation of interactive 3D designs in platforms like AutoCAD Electrical by linking CAD Models to IEC Canonical power system data models (**IEC 61970/61968-Common Interface Model (CIM) and IEC 61850**) and simulation software.
- Devised a smarter network to monitor and convey rely ON/OFF status and relay healthy status to microcontroller.

LOW COST μ PMU (μ -Phasor Measurement Unit) DEVELOPMENT AND ITS USE IN ELECTRICAL DISTRIBUTION SYSTEM Aug 2015- Present
(Supervisor- Prof. A.K. Pradhan, Department of Electrical Engineering, IIT Kharagpur)

- Performed Literature Studies on PMUs and requirement of Wide Area Monitoring System (WAMS) in Electrical Distribution System.
- Realized a **prototype of the μ PMU** using **TM4C123G Microcontroller from Texas Instruments and ESP 8266 Wifi Development Module**.

A new Directional Relaying technique using superimposed currents and bus voltages Oct 2015- Present
(Supervisor- Prof. A.K. Pradhan, Department of Electrical Engineering, IIT Kharagpur)

- **Invented a noble directional relaying technique** using superimposed currents and bus voltages.
- Carried out simulation study of the idea in **PSCAD using IEEE 9- Bus model**.

COURSES UNDERTAKEN

- Digital Electronics
- Digital Signal Processing
- Embedded Systems
- Signals and Networks
- Computer Architecture and Operating Systems
- Analog Electronics
- Analog Communication
- Programming and Data Structure
- Control and Electronic System Design

TECHNICAL SKILLS

Operating Systems	Windows, Linux
Programming Languages	C, C++, JAVA
Programming IDEs	Eclipse, CodeBlocks
Software	System Verilog, Verilog, MATLAB, Proteus, AVR Studio, PSCAD, Simulink, Microsoft Office

POSITIONS OF RESPONSIBILITY

Vice President, Dakshana Alumni Network (DAAN) Sept 2015- Present

- Supervising the efficient functioning and performance of **3 Teams with 3 Heads and 7 Secretaries**.
- Responsible for **Drafting a Constitution for DAAN**, a first of its kind to be introduced this year.
- **Pioneered an improved version of bi-monthly DAAN Newsletter**, DAAN Khabar, 2 issues released till.

Head, Grand Dakshana Selection Test (GDST) Coordination Team, Dakshana Alumni Network (DAAN) Dec 2014- Aug 2015

- Led a team of **3 Junior Secretaries and 231 Volunteers** for successful conduction of GDST 2015, held across **65 centers all over India**.
- **Optimized the volunteer Allocation and Management process** to significantly reduce the operational cost.
- Ensured a hassle free volunteering experience for GDST Volunteers through implementation of effective management techniques.

EXTRA ACADEMIC ACTIVITIES

- Integral Part of **Gold Wining Ad-Design, Cartooning and Hindi Dramatics Team** of Nehru Hall of Residence. (2014)
- Secured **7th Position amongst 150 participants** in **Open-IIT Cartooning Event**. (2013)
- Participated in **Education Spreading Campaign** at remote villages under **National Service Scheme (NSS)**. (2012-14)
- Acting as **Mentor for first year students** of IIT Kharagpur under Students Welfare Group (SWG). (2014-16)