Pogu Kalpana Devi   **1201EE27**
UG Fourth Year (B. Tech)   **Electrical Engineering**
Indian Institute of Technology Patna   **FEMALE**

Examination	University	Institute	Year	CPI/%
Graduation	IIT Patna	IIT Patna	2012-16	6.3
Intermediate/+2	BIE, AP	SR Edu. Institutions	2011	88
Matriculation	BSE, AP	Vadana High School	2009	92

PROFESSIONAL EXPERIENCE

Essar Steel India Ltd., Surat | Summer Internee, Power Systems   May'15 – June '15
- Studied the **technicalities** of **power systems** in **Hot strip Mill (HSM)** and the different equipment used in it
- Analyzed the **Power distribution** to entire HSM and all other equipment comprised in **power System protection**
- Identified the **key problems** and explored the methods to tackle the problem for the **safer** and **reliable system**

Bharat Heavy Electricals Ltd. (BHEL), Hyderabad | Summer Internee   May'14 – June'14
- Studied the working **mechanism** of **Turbo Generators** and their applications
- Studied the manufacturing procedure of different components used in Turbo Generators

LEADERSHIP & ORGANIZATIONAL EXPERIENCE

Overall Coordinator, CELESTA **Aug'14 – Dec'14**	• Led a team of 30 interdisciplinary students in the conceptualization & execution of Celesta 2014, the intra technical fest of IIT Patna • Micro-managed a budget of approx. 1 lakh; First girl from the institute to be selected for the position
Technical Coordinator, ANWESHA **Aug'14 – Feb'15**	• Part of core managerial team responsible for the conceptualization and execution of Anwesha 2015, annual cultural and technical fest of IIT Patna • Led a team of 60 students; Macro-managed a budget of approx. 3 lakh
Technical Secretary, Girls Hostel **Aug'14 – April'15**	• Elected by the inmates to ensure the smooth functioning of technical activities • Communicated with Computer Center in introducing Intranet for the first time
Captain, Girls Table Tennis team **Aug'13 – Dec'14**	• Led IIT Patna girls team at **Inter IIT TT Championship** twice ('13, '14) • Revamped training standards by organizing practice matches
Tech. Sub Coordinator, Anwesha **Aug'13 – Feb'14**	• Designed a **12*24 LED matrix** which can display any **scrolling message** using **Arduino**; Conducted an event, **Romantronix**, on the same problem statement • Only girl to be part of the technical organizing team of Anwesha 2014

KEY ACADEMIC & TECHNICAL PROJECTS

Optimal Camera Positioning System, **Bachelor Thesis Project | Guide**: Prof. Mahesh h. kolekar   **(Present)**
- Determining the **optimal position** (minimum number) of cameras for a region to be covered, given a set of task-specific constraints and a set of possible cameras to use in the layout; **Layout** can be **dynamic**, irregular and may have obstacles too

Entrepreneurial Project | Guide: Prof. Anjan Roy Choudhary
- Served South Indian delicacies within the IIT Patna campus (There was a huge demand considering the location of Patna)
- Observed the **demand** in Short run; learnt how to tackle sudden surprises like more demand than **production** or more production- **sudden fall in demand**. Ended with a good profit

Vehicle Tracking System | Guide: Prof. Sudhan Majhi
- Designed a device to track the **position** of a **vehicle** and to **communicate** the exact **location** (Lat-Long) through **SMS**
- Tested the same using a **GPS module** (to track position), **GSM module** (to send SMS) and **Arduino micro-controller**

BPSK Modulation | Guide: Prof. Sumanta Gupta
- Generated **Pseudorandom binary sequence (PRBS)** signal as input to perform **Binary Phase Shift Keying (BPSK) modulation**
- Designed a **PCB** using **Photo lithography** technique and **Diptrace** software for routing the circuit

TECHNICAL SKILLS

- **Tools and Packages**: MATLAB, AutoCAD, Mathematica, Xilinx ISE, Verilog, Arduino, PIC, ARM, Microprocessor -8085
- **Programming languages**: C/C++, Java Script

ECA: Classical dancer; received awards and mementos at various cultural events; secured 3rd position at Anwesha, 2014