

OBJECTIVE:

Seeking a technical position as an Electronics and Communications Engineer in a reputed organization, where I can leverage my expertise in **circuit design, PCB design, and 3D modeling** to contribute to the organization's or institute's success and enhance productivity.

EXPERIENCE/TRAINING:

October 2023 – Present

CDAC(Centre For Development of Advanced Computing), Noida- Project Intern

This project is under **Ministry of Electronics and Information Technology (MeitY)**, Government of India, funded project “Development of electronics & IT based Control and automation Solution for consumer (Toy project) Electronic Goods”.

- Conducted reverse engineering of electronic toy parts to improve design documentation and manufacturing processes.
- Interacted with LEGO team members to develop innovative solutions for product improvement.
- Experienced in using **EasyEDA and Eagle Software** and other PCB design tools.
- Proficient in schematic Designing, PCB layout design, routing, and optimization.
- Generated necessary documentation, including **Gerber files**, assembly drawings and **Bill of Materials**

(BOM).

- Expertise in selecting components based on technical specifications, cost, and availability.
- Experienced in sketch and 3D sketch design and surface modeling.
- Proficient in 3D modeling and assembly creation.
- Designed and modeled mechanical components and assembled using SolidWorks.

Toyzone Impex Private Limited, Bhiwadi- Industrial Trainee Engineer

- Proficient in creating Bill of Materials (BOM) for specific toys.
- Knowledgeable in materials used in toy manufacturing.
- Experienced in testing and troubleshooting electronic components.
- Checked quality and production of toys.
- Monitored the running of injection moulding machines.
- Maintained assembly lines for toy production.

December 2021- February 2022

NF Railway New Guwahati Diesel Locomotive Shed- Internship

- Conducted in-depth study on train safety devices, understanding their functionalities.
- Acquired knowledge of train engine mechanics and electronics in locomotives.
- Expertise in modern train electronics and MEP-660 microprocessors, facilitating informed railway technology integration and optimization.

ACCOMPLISHMENTS:

Project: Rechargeable Junior Tri-Wheeler Scooter Development

June-July 2024

“Developed a prototype for rechargeable junior tri-wheeler scooter by assembling parts, identifying and sourcing missing components, designing and building the circuit, addressing design flaws, making mold modifications to include a PCB toggle switch, and conducting thorough testing.”

Technologies: Musical And LED Blinking PCB, DC Motor, Pedal Accelerator, FWD and REV Switch.

Project: Toy Drone Development

October 2023-April 2024

“Developed a prototype for toy drone prototype, managing all aspects from circuit design and software programming to PCB layout and 3D casing design, ensuring optimal performance and stability.”

Technologies: ATmega640, MPU6050 IMU Sensor, EasyEDA, SolidWorks, Custom Flight Control Algorithms.

Project: Smart Blind Stick

March 2023- June 2023

“Developed a prototype for smart blind stick using ultrasonic sensors and Arduino, featuring audio and vibration alerts, and a servo motor for dynamic obstacle detection, to enhance navigation and safety for visually impaired individuals.”

Technologies: Arduino, Ultrasonic Sensors, Speaker, Vibration Motor, Servo Motor.

COMPUTER PROFICIENCY:

Proficient in Microsoft Office Suite for creating documents, spreadsheets, presentations, and managing emails. Skilled in installing Software Packages and providing hardware/software interface solutions by upgrading software and drivers.

EDUCATIONAL QUALIFICATION:

2023 Completed BTech in Electronic And Communication Engineering in First Division
From North Eastern Hill University, Shillong, Meghalaya.

2019 Passed Higher Secondary in First Division
From Don Bosco Higher Secondary School, Tura, Meghalaya.

2016 Passed 10th grade in First Division
From Don Bosco High School, Damra, Assam.

HARD SKILLS:

- **PCB Design**

EasyEDA Software and Eagle software

- **SOLIDWORKS**

3D Modelling, Assembly and Basic Simulation

- **Arduino IDE**


Bootloading and Arduino Programming

PERSONAL DETAILS:

- Father's Name :- Mr. Dhanuram Hato
- D.O.B. :- 28.07.1998
- Nationality :- Indian
- Marital Status :- Single
- Permanent Address :- Vill- Habangiri, Post- Damra, Distt. Goalpara, (Assam) -783122, India
- Contact No.: +91 8822514073
- Email ID: prononpersonal@gmail.com
- Languages: English, Hindi and Assamese.

DECLARATION:

I hereby declare that the above-mentioned particulars are true to the best of my knowledge and belief.



PRONONJOY RABHA