

# Dibyendu Barman

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I am actively seeking opportunities within an industry where I can develop and maximize my skills while contributing to organizational objectives. With a dedication to teamwork and a passion for innovation and creativity, I aim to make meaningful contributions.

## PROFILE SUMMARY

Passionate and results-driven **Embedded Systems & Electronics Hardware Engineer** with over **5 years** of experience in **hardware testing, validation, manufacturing, and quality assurance**. Skilled in **Embedded C, Python, Shell scripting, and hardware validation**, with a strong foundation in **Coexistence (Coex)** testing, RF/Non-RF signal analysis, and failure diagnostics. Proven expertise in **ISRO-standard aerospace & defense-grade electronics, IoT-based devices, and consumer electronics hardware validation**.

### Foxconn Hon Hai Technology India Mega Development Pvt. Ltd., Bangalore

- ❖ Working in the **NPI EE System Coex** team for **iPhone hardware validation**.
- ❖ Conducting **Coexistence (Coex) testing** to analyze the impact of RF and Non-RF signals on iPhone modules like **Camera, Sensors, Display, and USB**.
- ❖ Developing and executing **Python & Shell** script-based testing and validation procedures.
- ❖ Performing **failure analysis** and debugging hardware and firmware-related issues.
- ❖ Working with **Oscilloscopes, Spectrum Analyzers, Logic analyzers, Power analyzers, DMMs**, and other testing equipment.

### Intugine Technologies Pvt. Ltd., Bangalore

- ❖ Conducted **testing, validation, and manufacturing** of **IoT-based embedded** tracking devices (GPS, GSM, and SIM card).
- ❖ **Developed** and **modified** Embedded C firmware for validation and testing.
- ❖ Used **Keil uVision5 & Arduino IDE** to generate .hex files and program **MCUs** via **ST-Link Utility**.
- ❖ Conducted **manual soldering, rework, and debugging** using oscilloscopes and multimeters.

### Centum Electronics Ltd., Bangalore

- ❖ Worked on **ISRO-standard Wiring Harness, Assembled PCB, Debugging, and Testing** for **Aerospace and Defense applications**.
- ❖ Hand soldering and inspection of SMD, PTH, Microprocessors, and Connectors.
- ❖ Conducted **failure analysis** on PCB circuits based on schematic diagrams.
- ❖ Expertise in **micro-level rework** of 0201 and SOIC packages.
- ❖ Ensured compliance with 5S, ESD, and Aerospace quality standards.

## PROFESSIONAL EXPERIENCE

**Organization** : Foxconn Hon Hai Technology India Mega Development Pvt. Ltd., Bangalore  
**Designation** : Assistant Engineer  
**Period** : From January 2024 to Present

**Organization :** Intugine Technologies Pvt. Ltd., Bangalore  
**Designation :** Electronics Technician  
**Period :** From January 2021 to August 2022

**Organization :** Centum Electronics Ltd., Bangalore  
**Designation :** Technician  
**Period :** From June 2017 to November 2019

#### TECHNICAL SKILLS

- |                    |                       |                      |
|--------------------|-----------------------|----------------------|
| ❖ Embedded Systems | ❖ Hardware Validation | ❖ Manual Soldering   |
| ❖ Python Scripting | ❖ Automation Testing  | ❖ Quality Inspection |
| ❖ Linux System     | ❖ C / C++ Programming | ❖ Basic Embedded C   |
| ❖ Arduino Uno      | ❖ UART, SPI, I2C      | ❖ Firmware Update    |
| ❖ Embedded C       | ❖ Debugging           | ❖ Shell Scripting    |

#### EDUCATION

- ❖ **B-Tech in Electronics & Communication Engineering** from **Mallabhum Institute of Technology**, West Bengal in 2021 with **8.0 GPA** marks.
- ❖ **Diploma in Electronics & Telecommunication Engineering** from **K. G. Engineering Institute**, West Bengal in 2017 with **80.5 %** marks.

#### EMBEDDED SYSTEMS TRAINING

- ❖ Attended **9-Month (August 2022 to May 2023)** Hands-on Technical Training Program on **Advanced Embedded Systems** at **Emertxe Information Technologies**, Bangalore.
- ❖ **Programming Languages:** Linux Shell Scripting, C/C++, Embedded C.
- ❖ **Embedded Controllers:** Hands-on working with GPIOs, Analog I/Os, Memory usage, interfacing, and character LCD.
- ❖ **Communication Protocols:** UART, SPI, I2C, TCP/IP.
- ❖ **Embedded Platforms:** PIC16F877A, Arduino Uno, STM32F401RE Board, ESP32-S2 Wi-Fi Module.
- ❖ **Development Environment:** Vim, Visual Studio, MPLAB X IDE, Arduino IDE, ESP-IDF Framework.
- ❖ **Compilers:** GCC, XC8.

#### IT SKILLS

- ❖ C, C++, Linux Shell Scripting, Embedded C
- ❖ MS Office, MS Word, MS PowerPoint, Google Sheet
- ❖ Canva Photo & Music Video Editing
- ❖ Website Design on WordPress using Elementor
- ❖ Windows System, Linux System
- ❖ Windows to Windows file sharing by LAN

#### ACHIEVEMENTS

- ❖ Awarded for **Consistent Contributor**.
- ❖ Awarded for **Technical Creativity**.
- ❖ Awarded for **Kaizen Improvement**.

#### PERSONAL DETAILS

**Gender :** Male  
**Marital Status :** Married  
**Date of Birth :** 16<sup>th</sup> Dec 1996  
**Languages Known :** English, Hindi, Bengali(Mother Tongue) and Kanada(Beginner)

**CURRENT ADDRESS**

Rajanukunte, Yelahanka, Bengaluru,  
Karnataka - 560064

**DECLARATION**

I hereby declare that all the information given above is true up to the best of my knowledge.

Date: 23-March-2025

Yours faithfully

Place: Bangalore

(Dibyendu Barman)