

# DIBYARANJAN SWAIN

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## CAREER OBJECTIVE

To contribute to research and development in the field of electronics, embedded systems, and IoT. With a strong foundation in both education and hands-on experience, I seek to be part of an innovative team focused on delivering impactful technological solutions.

## PROFESSIONAL EXPERIENCE

- Sr. Project Engineer | Wizklub Learning Pvt. Ltd.

March 2022 - Present

- Designed and developed interactive STEM and educational products using Arduino and ESP32.
- Conducted embedded coding, PCB assembly, and final product testing.
- Integrated electronics with mechanical components using 3D CAD tools.
- Delivered training and assisted in curriculum development.

- Operating Engineering Trainee | Dana Anand India Pvt. Ltd.

August 2020 - August 2021

- Maintained safety and quality standards in production of drivetrain components.
- Supported process improvements through Kaizen and 5S practices.
- Assisted in documentation and customer audits.
- Contributed to productivity tracking and quality improvement metrics.

## ACADEMIC QUALIFICATIONS

- B.Tech in Electronics & Communication Engineering, REC
- Diploma in Mechatronics, CTTC – 75.5%
- Matriculation, Kendupada High School – 72%

## SKILLS & TOOLS

### Technical Skills

- Programming: C, C++, Python
- Microcontrollers & Platforms: Arduino, ESP32
- Embedded Systems: Circuit design, debugging, testing, and integration

### Software Proficiency

- E-CAD: Proteus, TIA Portal
- CAD & Modeling: Fusion 360, SolidWorks, CREO Parametric, AutoCAD
- Simulation Tools: FluidSIM-P, FluidSIM-H, CNC Simulation
- Tools: MS Excel, Word, PowerPoint
- Version Control: Git, GitHub

## PROJECTS

### [Automated Watering System](#)

Smart irrigation using soil-moisture sensing, relay-controlled pump, OLED animations, and DFPlayer Mini alerts.

### [Magic Switchboard](#)

Interactive switch-LED puzzle with dynamic mapping and visual feedback.

### [Child Safety System](#)

SOS + ultrasonic presence detection and timer-based alerts for washroom safety.

### [7x5 NeoPixel Custom Display](#)

ESP32-powered web-controlled 7x5 LED matrix with numbers, alphabets, and drawing mode.

## AREA OF INTEREST

- Embedded Systems & Firmware Development
- IoT Applications & Product Innovation
- R&D in Electronics and Automation

## PERSONAL DETAILS

Date of Birth: 16/03/2000

Father's Name: Mr. Pravakar Swain

Mother's Name: Mrs. Sukanti Swain

Languages Known: Odia, Hindi, English

Address: AT-Thakurapal, PO-Kendupada, DIST-Dhenkanal, PIN-759014

## DECLARATION

I hereby declare that the above information is true to the best of my knowledge and belief.