B MONISH

Electronics And Communication Engineering Student

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EXPERIENCE

INTERNSHIPS

D-Rube Labs & Research Pvt. Ltd.

January 2025 – March 2025

- Gained knowledge in **Electronics Engineer**
- Conducted thorough analysis of electronic components to ensure technical feasibility for ongoing projects.
- Provided insights into working principles and real-world applications of various electronic components.
- Tech Stacks: **STM Micro controller, Arduino IDE, Actuator**

ACHIEVEMENTS

- Secured 4th place in **IMPATHON'23** conducted by Sona College of Technology
- Received an **Award of appreciation** for performing well in academics
- Secured 2nd place in **Technical quiz** conducted in Sona College of Technology.

TECHNICAL SKILLS

- **Programming Languages**
  - MATLAB
  - C/C++
  - Embedded C
  - Python
  - **Verilog System**
- **Designing Skills**
  - **PCB Designing**
  - **VLSI Designing**
  - **ASIC and FPGA Design Flow**
  - **Circuit Design**
- **Software Control**
  - **IoT Device**
  - **S - Edit Tool**
  - **TCL Stimulator**
- **Other Application Tools**
  - **Arduino IDE**
  - **QuestaSIM**
  - **Proteus**
  - **SPICE Tools**

COURSEWORK SUBJECTS

- **Course on Java**
- **NPTEL Introduction to Internet of Things**
- **NPTEL Introduction to Digital Circuits**
- **ASIC design Flow using Siemens EDA Tool**
- **Embedded System And IoT course at Enthu Tech**

EDUCATION

B.E (**Electronics and Communication Engineering**).

(**HONORS** - Specialization in **Semiconductor Designing and Testing**).

8.69 CGPA

Sona College Of Technology

📅 2021 – 2025   📍 Salem, Tamil Nadu

Class XII (PCMCs)

85 %

Mahadeva PU College

📅 2019 – 2021   📍 Hoskote, Karnataka

Class X

81.8 %

Fatima English High School

📅 2018 – 2019   📍 Hoskote, Karnataka

PROJECTS

E NOSE
• Arduino | IoT | Embedded System | MQ3 Sensor |

A smart bathroom odor detection system utilizing an **MQ3 sensor**. Sends alerts via **IFTTT** to clean staff when high levels of unpleasant smell are detected.

7nm Asynchronous JK Flip-Flop Counter
- **• Low Power | High Speed | 7nm Technology**

This project designs a **7nm asynchronous counter** optimized for high-speed applications. The JK flip-flops operate without a global clock, reducing power consumption. **The 7nm FinFET** technology enhances speed and minimizes leakage, making it suitable for processors, communication systems, and real-time applications.

SMART GLOVE
• Arduino | Flex Sensor | PIC | Wearable Technology

This glove-based Project develops a interpreter system for deaf-mute individuals. It uses five **Flex sensors** to detect sign language gestures, which are processed into binary outputs by a **PIC** controller.

LEADERSHIP

- **Student Coordinator** – English Club
- **Department Treasurer** in Electroblitz 2022 and 2023 - An intra-college symposium
- **Organizer** in Fractals and Ivenor 2023 and 2024- Inter college Technical Symposium