

# Monish Babu Arunagiri

Final Year Student

Bachelor of Technology

Electronics and Communication Engineering

Vellore Institute of Technology, Chennai

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GitHub Profile

LinkedIn Profile

## EDUCATION

### •Vellore Institute of Technology, Chennai

2021-2025

B.Tech Electronics and Communication Engineering

CGPA: 7.85\*

### •Jeevana School, India

2021

Indian School Certificate, ISC

CGPA/Percentage: 81

## EXPERIENCE

### •Lucas TVS

09/2023 - 10/2023

In-plant Trainee

Chennai

- Interfaced with 32 Bit ARM Cortex M0+ based controller
- Built circuits with the help of Proteus software for simulating different needs and analyzing it
- Designated the peripherals of STM32 controller with the help of STM32CubeMX software for visualizing the waveform using keil uVision
- Developed and implemented an Embedded C code solution on Keil uVision, resulting in a 15percent reduction in simulation time for circuit design, enhancing overall project timelines and efficiency.
- Studied about different families of STM32 controller

## PERSONAL PROJECTS

### – Schottky Diode Development

01/2024 - Present

An In-Depth Investigation On Schottky Contact For Sensing Application

- \* Conducted in-depth analysis and experimentation on metal oxide semiconductor Schottky structures, leading to the identification of new materials that enhanced device performance metrics.
- \* An advanced research initiative focused on the development of metal oxide semiconductor-based Schottky diodes, resulting in a prototype that achieved a 12 percent improvement in thermal efficiency over previous designs.

### – Integration of Cryptography and Steganography for Secure Communication

06/2023 - 07/2023

A software that encrypts data using cryptography and steganography for secure data preservation

- \* Tools & technologies used: MATLAB
- \* Engineered a MATLAB-based encryption software that secures user data stored online; enhanced data protection protocols and reduced potential breaches by 40 percent through advanced encryption methodologies.

## TECHNICAL SKILLS AND INTERESTS

**Languages:** Java, Python, C, MySQL, MATLAB

**Developer Tools:** VS Code, Eclipse, Mathworks, Keil uVision, Excel, Node-Red

**Cloud/Databases:** Amazon Web Services(AWS), Google Cloud Platform(GCP)

**Soft Skills:** Time Management, Critical Thinking, Communication, Multilingual

**Areas of Interest:** Network Engineering, Cloud Computing, Cyber Security, Java development, Software Development

## CERTIFICATIONS

### – Amazon Web Services AWS Certified Cloud Practitioner

01/2024

### – Google Cloud Platform Google Cloud Computing Foundations

11/2023

### – Coursera Interfacing With Arduino by University of California

02/2022

## POSITIONS OF RESPONSIBILITY

### – Photography Team Sports Club VIT Chennai

04/2023 - Present

- \* Served as a core photography member on one of the largest sports fest "VIBRANCE-Sports"

## LANGUAGES

- **English** Full Professional Proficiency
- **Tamil** Native or Bilingual Proficiency
- **Hindi** Intermediate Proficiency
- **German** Elementary Proficiency