



## Ansil Bayan

Roll No.: B200197EE

B.Tech

Electrical and Electronics

National Institute of Technology, Calicut

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Malappuram, Kerala

GitHub Profile

LinkedIn Profile

## EDUCATION

### •National Institute of Technology, Calicut

2020-25

B.Tech in Electrical and Electronics Engineering

CGPA : 7.13

### •GHSS Thirurangadi

12th Percentage: 97.3

CBSE, Kerala

10th Full A1

## EXPERIENCE

### •Grafito Innovations Private Limited

26th June - 29th July, 2023

Intern

- Developed a Python GUI with PyQt5, creating a communication bridge for ESP32 through ROS and microROS, allowing accurate control of motor rotations.
- Employed microROS and FreeRTOS in crafting ESP32 code, enabling precise management of various motors and sensors, and designed the corresponding PCB on the EasyEDA platform.

### •NPOL Cochin

May 16 - June 27, 2022

Intern

- Worked on the "Password Matching Front End for Acoustic Demodulator project, involving the design and implementation of a password matching algorithm in a PIC18F microcontroller.
- Developed a low-power analog demodulator circuit using AD633 analog multipliers and an operational amplifier, integrated with a 4-bit decoder system and microcontroller-based password matching system.

### •IIIT Kottayam

Dec 1, 2021 - June 1, 2022

Intern

- Developed a lightweight symmetric encryption algorithm, facilitating encryption of text and diverse image formats.
- Undertook a detailed performance evaluation of the algorithm, benchmarking its throughput and avalanche effect against prevailing encryption methods.

### •Tathva 2022

Senior Executive Head in Tathva Programming Committee

- Successfully planned, organized, and executed various electronics-related events, attracting enthusiastic participation and achieving remarkable success.

## PERSONAL PROJECTS

### • Multiplayer Puzzle Game Webpage

Developed a multiplayer puzzle game web page using HTML, CSS and JavaScript, featuring an unbeatable AI engine and customizable difficulty levels.

### • Python Puzzle Games Collection with User-Friendly GUI

Designed and implemented various puzzle games like Tic Tac Toe, Sudoku Solver, and Split using Python, accompanied by a user-friendly interface built with Python GUI.

### • Portfolio Website

Created a responsive portfolio website, showcasing my skills, achievements, projects, and more.

### • Hotel Management System

Developed an efficient hotel management system, including room bookings, guest information, and billing, using Python and MySQL.

### • Expense Tracker Android App

Developed an Android app using Flutter and Dart for efficient expense tracking and management.

### • Temperature Prediction and Analysis using ML

Utilized Machine Learning to analyze past temperature data and predict temperatures for upcoming years.

## TECHNICAL SKILLS

Proficient in Python, HTML, CSS, JavaScript, Flutter and Dart, MySQL, ROS2 and MicroROS, Embedded C, Git, LaTeX, Docker, and experienced in Web Development, App Development, and Circuit Design.

**Software Proficiency:** Proficient in Visual Studio Code, Matlab, Proteus, LTSpice, Arduino IDE, ESPIDF, Jupiter Notebook, EasyEDA, KiCAD, FluidNC and MPLAB IDE.

## ACHIEVEMENTS

### • 6-Star in HackerRank for Problem Solving

### • Received Felicitation for Performance in Olympiads (IMO, RMO and NSO)