

Anagha John

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SKILLS

Languages: C++, C, Python, SQL

Tools/Platforms: Arduino IDE, ESP-32, proteus , Tinkercad, Solidworks, Ansys ,Logixpro, Cadence, Matlab

Soft Skills: Problem-Solving, Team Player, Project Management, Adaptability, Multitasker, Public Speaker , social being.

TRAINING

Automate X – PLC based training for Industrial Automation

Jun' 25 – jul'25

Intern

- Designed ladder logic programs using LogixPro and TwidoSuite for motor, conveyor, and process control systems, applying timers, counters, and interlocks for safe and reliable operation.
- Implemented and debugged PLC control logic in simulated industrial setups to ensure smooth and accurate system performance.
- Created and tested automation workflows that simulated real factory processes by configuring digital and analog I/O modules and optimizing control strategies based on system response.

PROJECTS

Hybrid UAV System |

Sept' 25

- Designed a cooperative drone system where a fixed-wing UAV performs high-altitude wide-area scanning using AI-based detection.
- Implemented coordination between a fixed-wing UAV and a rotary drone, enabling the rotary drone to navigate to detected locations and capture close-range visual confirmation.
- Created a real-time control dashboard to display detection time and location, supporting rapid decision-making for search and rescue operations.

Smart Irrigation System |

Mar' 25

- Designed a smart irrigation system using soil moisture and temperature sensors to automate plant watering.
- Implemented microcontroller-based control logic with Arduino to optimize water usage and prevent over-irrigation.
- Created an integrated sensor and pump control system as a cost-effective and eco-friendly solution for agriculture and home gardening.

Smart IOT Autoflow Well Management |

Dec' 24

- Designed a pressure transducer-based instrumentation system integrated with the well cap to measure hydraulic head in artesian (autoflow) wells by converting pressure signals into calibrated water level data.
- Implemented an IoT-enabled control and monitoring unit to regulate well discharge using a smart tap mechanism, enabling remote supervision of pressure and flow parameters.
- Created an automated protection and flow regulation module using a solenoid valve and flowmeter for real-time flow measurement, emergency shutoff, and system safety.

PATENTS

Method and Apparatus for measuring Autoflow Height in Artesian Wells |

Jan'25

Patent application no: IN202511047794

- IOT-enabled flow control system for Artesian Wells.
- Used ML to predict flow, mitigating landslide risks.
- Real-time monitoring for efficient water management.

CERTIFICATES

- Automate X – PLC based training for Industrial Automation June'25
- Python Course for Beginners |Scalar May' 24
- Complete guide to build IOT things from scratch to market| Scalar Apr' 24

ACHIEVEMENTS

Smart India Hackathon 2024 Winner

Dec'24

- Designed a pressure transducer-based system integrated with a well cap to measure water head in autoflow (artesian) wells.
- Implemented a smart IoT-based control system with a tap mechanism to regulate water flow and monitor well pressure.
- Created an automated safety setup using a solenoid valve and flowmeter to display calculated water level above ground and support emergency control.

ISRO Agnirna Space Internship Program Participant

Aug'24

- Completed an 8-week (80-hour) internship program by Agnirna, successfully accomplishing all 440 learning and practical steps focused on space science, technology, and research applications.

EDUCATION

Lovely Professional University

Bachelor of Technology
Electronics and Communication Engineering; Current CGPA: 7.03

Phagwara, Punjab
Aug' 23 – Present

Carmel HSS Chalakudy

Intermediate
PCM; Percentage: 94%

Chalakudy, Kerala
june' 20 – Mar' 22

Crescent Public School

Matriculation
Percentage: 79%

Chalakudy, Kerala
June' 19 – Mar' 20