Agney Suresh

7907235646 | agneysuresh1@gmail.com | linkedin.com/in/agney-suresh | github.com/AgneySuresh

Summary

I am an aspiring Electronics and Communication Engineering graduate with a great interest in **embedded systems** and **computer architecture**. I am also very interested in app development. Driven by a strong interest in technology and innovation, I am eager to take on new challenges, expand my knowledge, and gain practical experience in these dynamic domains. I am very motivated to explore new concepts and am committed to continuous learning while actively contributing to cutting-edge initiatives that push the boundaries of technology.

Education

Bachelor of Technology in Electronics and Communication Engineering — Palakkad, kerala
2021 – 2025

NSS College of Engineering Palakkad
CGPA : 6.82

Kerala Board Higher Secondary Examination — Pala, Kerala
2019 – 2021

St. Vincent English Medium Higher Secondary School
Graduated HSE with 97.6%

AISSE 2019 — Malappuram, Kerala
2018 – 2019

Sacred Heart Senior Secondary School
Graduated AISSE 2019 with 95.6%

Projects

Multimodal Human Detection System Using Deep Learning Methods | *Python, Transformers, PyTorch*

- Developed a multimodal human detection system using RGB, thermal, and infrared imaging with advanced preprocessing techniques (CLAHE, Gaussian filtering, histogram equalization)
- Implemented DETR (DEtection TRansformer) for end-to-end object detection using self-attention mechanisms
- Optimized model performance through hyperparameter tuning using Optuna and evaluated using mAP, IoU, and GIoU metrics
- Project funded by the Centre for Engineering Research and Development (CERD)

IoT Based IV Bag Monitoring System | *Arduino, Blynk*

- Developed an IoT based self monitoring alert system on to IV bags that connect via Blynk interface
- The proposed system can also be used to track the status anywhere wirelessly by Wi-Fi and Cellular systems.
- Real-time monitoring capabilities to alert the user when the bottle is nearing empty

Automatic Vacuum Cleaner | *Arduino*

- Developed a fully automatic vacuum cleaner using an Arduino UNO
- Capable of being operated remotely via an IR remote
- Short listed for district level Young Innovators Programme 5.0

ToDoDo - A Simple To Do App | *Flutter*

- Developed a minimalist notes and To Do app for android
- Capable of storing data remotely via Hive

Certifications

CS50x: CS50's Introduction to Computer Science July 2025
Harvard University

- Completed Harvard's rigorous introductory computer science course covering algorithms, C, memory, data structures, web development, and systems programming through hands-on problem sets and a final project.

Ubuntu Linux Professional Certificate by Canonical June 2025
Canonical

- Delved into major Linux system administration topics such as storage management, user management, system administration, CLI usage etc.

VLSI Design Flow: RTL to GDS October 2023
IIIT Delhi

- Delved into various stages of logic synthesis, verification, physical design, and testing

Introduction to Embedded System Design April 2023
Indian Institute of Technology Madras

- Introduction to Embedded System design using a microcontroller, namely Texas Instruments MSP430 low power microcontroller

Technical Skills

Languages: C, Dart, Python, C++
Developer Tools: ESP32, Arduino, Flutter, Git, VS Code, SQLite
Simulation and design software: LT Spice, CST Studio Suite
Linux: CLI, bash, System administration, Storage management, User management
LaTeX: for academic and technical writing

Soft Skills

Adaptive Communication, Creative Thinking, Attention to Detail, Pattern Recognition

Area of Interest

Embedded Systems, IoT, Linux
Video Editing, App Development, Graphic Design, Art

Languages Spoken

English (Fluent)
Malayalam (Fluent)
Hindi (Conversational)