

FIRDOUS M

Electronics and Communication Engineer

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EDUCATION

College of Engineering Thalassery
Bachelor of Technology in Electronics and Communication Engineering
Cumulative GPA: 6.0/10

Thalassery, India
Nov 2021 – May 2025

Sreepuram English medium school and Jr college
Class 12, Board – ICSE, Percentage – 89.0%

Kannur, India
Jun 2020 - Mar 2021

PROFESSIONAL EXPERIENCE

UI/UX Designer - Freelance Jan 2024
Designed responsive web and mobile interfaces using **Figma**, **Adobe XD**, and **Sketch**, improving user engagement and usability across multiple client projects. Delivered end-to-end design solutions from wireframes to **high-fidelity prototypes** for industries like e-commerce, IoT, and edtech, ensuring intuitive and user-centered experiences.

Front End Web Developer – Freelance Jan 2024
Developed responsive and dynamic websites using **HTML**, **CSS**, **JavaScript**, and **React**, optimizing performance and cross-browser compatibility. Collaborated with clients to translate **UI/UX** designs into interactive web interfaces, ensuring pixel-perfect implementation and mobile-first design.

Python Intern at Quest Global Oct 2024 – Dec 2024
Collaborating with the software development team to develop and maintain scalable Python applications as part of **real-world** engineering solutions. Wrote clean, modular, and efficient Python code for internal tools, **automation scripts**, and data processing pipelines, mainly focusing on the automation and script writing for automation purposes.

Flutter Developer intern at IMIOT Aug 2023 – Nov 2023
Contributed to the development of cross-platform mobile applications using **Flutter** and **Dart**, targeting both Android and iOS platforms. Collaborated with **UI/UX** designers to translate wireframes and designs into high-quality **responsive and interactive** mobile interfaces.

PROJECTS

Autonomous Robot for Hospital Supply Delivery Using PID Navigation

- Developed an **autonomous hospital supply delivery robot** using **PID control** for accurate line-following and navigation in dynamic indoor environments integrating obstacle avoidance using proportional integrate and differential algorithm.
- Integrated **sensors**, **motor drivers**, and **microcontrollers** to automate real-time path correction and ensure reliable, contactless delivery of medical supplies in indoor environments with obstacle avoided path mainly in Hospitals.

Autonomous Weather Forecasting via V-Dipole Antenna and ADALM-Pluto SDR

- Designed and implemented a fully autonomous weather forecasting system by integrating a V-Dipole antenna with **ADALM-Pluto** Software Defined Radio (SDR), enabling processing of atmospheric signals for accurate environmental monitoring.
- Processed and analyzed weather signals with **SDR** techniques to enable accurate forecasting and wireless data transmission.

SKILLS

Languages: C, C++, JAVA, Python, JavaScript, HTML, CSS. **Libraries:** Python libraries, React JS and JDK
Cloud/Database: Firebase, **Framework:** React JS. **Web Dev Tools:** Vs code, GIT, GitHub.

ADDITIONAL

Languages: English, Malayalam, Tamil, Hindi.

Interest: Web design, App Design, IoT solutions and Embedded system design, Signal processing and Wireless communication.

Soft skills: Team player, Leadership Quality, Fast Learner, Hard work, Time management, Dedication, Adaptability, Teaching.