



Rishikesh T P

ECE undergrad CUSAT

Passionate Electronics and Communication Engineering student with a strong foundation in product design, robotics, and electronics engineering. Proven track record in technical support, project management, and innovative problem-solving. Seeking to leverage skills in a dynamic and challenging environment.

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📍 KOCHI

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EDUCATION

B.Tech Electronics & Communication

School of Engineering CUSAT

10/2021 - 06/2025

TECHNICAL EXPERIENCE

Intern

CUSAT FABLAB

11/2022 - 10/2023

Achievements/Tasks

- Acquired proficiency in robotics, 3D printing design and printing, and Arduino programming.
- Assisted lab users with their projects by providing technical support, troubleshooting assistance, and guidance on design and implementation.

Intern

KIREAP

02/2024 - 06/2024

Drone-based logistics company,

Achievements/Tasks

- Created a User Datagram Protocol (UDP) system for drone-based logistics
- Gained insights into the hardware and software aspects of drone manufacturing.

Intern

BARC

06/2024 - 07/2024

Bhabha Atomic Research Centre

Achievements/Tasks

- Created an Android application for the new advanced ECG processor developed by BARC
- Tested the ECG processor for performance issues and confirmed that its efficiency is retained

Placement Coordinator

Placement Cell CUSAT

01/2024 - Present

Achievements/Tasks

- Organized technical workshops, seminars and recruitment events
- Networked with professionals in technical industries to build partnerships and expand placement opportunities.

SKILLS

C++

Android Studio

Python

Flutter

Arduino

Electronics

Robotics

3D Printing & Designing

Laser Cutting

FPGA

Verilog

IOT

MATLAB

JAVA

ArduPilot

Autodesk Fusion

Soldering

Simulink

Proteus

Raspberry Pi

Vivado

Embedded C

PERSONAL PROJECTS

Automatic CPR Machine (02/2024 - 04/2024)

- Integrated advanced sensing technologies for accurate chest compressions.
- Developed intelligent algorithms for effective compression depth and rate control.
- Enabled seamless communication with medical personnel and external monitoring devices.

Humanoid Robot (10/2023 - 12/2023)

- Developed Navigation and Communication Interface for the fully functional humanoid.
- Integrated sensor technologies for accurate perception and navigation algorithms for safe traversal with seamless communication interface.

Obstacle & Wireless Control Robo (02/2023 - 03/2023)

- Developed an obstacle-avoiding robot equipped for accurate obstacle detection and navigation algorithms for safe traversal
- Features wireless control capabilities, enabling seamless communication with external devices for intuitive remote operation

Alcohol Sensing & Ignition prevention (01/2023 - 02/2023)

- Utilized sensors to detect alcohol presence in the driver's cabin and prevents the ignition of the vehicle if alcohol is detected, thereby enhancing road safety by mitigating the risk of impaired driving incidents.

ORGANIZATIONS

Spectrum Learning (09/2022 - Present)

co-founder

ECSA CUSAT (02/2023 - Present)

secretary

CUSAT FABLAB (11/2022 - 10/2023)

Intern

BARC (06/2024 - 07/2024)

Intern

KIREAP (02/2024 - 06/2024)

Intern