



# RAFI RASHEED T C

## MAKER

### SUMMARY

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Self taught and passionate tech enthusiast with experience in hardware and software development. Love to build quality products which bring fulfilment to the users.

### EXPERIENCE

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#### ELECTRONICS TEAM LEAD

Team Horizon

Jun 2020 - Jan 2022

- Secured 3rd Rank in India and 39th rank worldwide in the ERC
- Led a team of 20+ Members on a mission to find 'Life on Mars'
- Built Electronic architecture and design of Mars Rover
- Organise team's development process and help steer the team towards maximum productivity

#### HARDWARE DEVELOPER - INTERN

Department of Physics, University Of Calicut

Jun 2019 - Dec 2020

- Design, development, testing and evaluation of different Hardware solutions
- Designed and developed temperature and humidity logger for laboratory purposes
- Conducted workshops and talks in IoT and Robotics to promote STEM education

#### OPERATIONS - INTERN








MakerGram

Jan 2020 - Jan 2021

- Designed MakerKit to promote maker culture
- Executed different plan and programs to build a hardware developer friendly ecosystem in Kerala
- Actively participated in Hackathons as a hardware mentor

### CONTACT

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### SKILLS

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- Python
- Node Js
- free RTOS
- C/C++
- Arduino
- ESP-IDF
- IoT
- GIT
- Eagle CAD
- KiCad
- Linux
- Raspberry pi
- Project Management
- Jira

### LANGUAGE

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- Malayalam - Native
- English - Intermediate

## EDUCATION

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### COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY

2018 - Present

#### Bachelor of Technology

- Major in Electronics and Communication
- Built a peer learning ecosystem in college to learn technology

### GHSS VAZHAKKAD

2015 - 2017

#### Higher Secondary Education

- Major in Computer Science
- Participated in various science exhibition

## PROJECTS

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### BARISH

Arduino and Python

- Improved existing rain prediction system with the help of local weather stations
- IoT weather monitor devices to track the path of rain

### TREMOR THERAPY

Arduino, Python Flask, Firebase, React Js, GoDot

- Wearable device integrated with a Game to make therapy more fun
- Interfaced IMU with Nodemcu to track movement

### FISH FARM AUTOMATION

Arduino and GSM

- Monitoring and control of Biofloc fish farm
- Flow and motor status monitoring and updating through SMS

### IOT HOME AUTOMATION DEVICES

ESP-IDF, Free RTOS, Node Js, Postgress, Docker, MQTT

- Firmware development for IoT devices with free RTOS and Espressif SoC
- Developed API & database integration and implemented HivamQ IoT broker
- Implemented Over The Air (OTA) feature

## AWARD

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- Won Hackbells Hackathon  
Conducted by SBCE (2021)
- Top 10 team in Mind Jam  
Hackathon conducted by DSC NIT  
Surathkal (2020)

## VOLUNTEERING

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- Hack Club CUCEK - Lead
- TinkerHub CUCEK - Lead
- Pygrammers - PRO
- Hackster Kerala
- Maker Fair Hyderabad - Mentor
- Hack Camp 2020 - Core Team
- Why Hacks - Mentor
- Hackholics - Mentor
- MakerFest Kerala