

# Rachel Francis

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📅 09/09/1999

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## 🎓 Education

Currently pursuing **MBA** at IGNOU

**BTech**, *Rajagiri School Of Engineering And Technology*

'23 | Kochi, India

**12th CBSE**, *Nirmala Matha Central School*  
Thrissur, India

**10th CBSE**, *Nirmala Matha Central School*  
Thrissur, India

## 🌐 Languages

English | Hindi | Malayalam

## 📁 Organization

**IEEE**

2019 – 2021

## 📖 Courses

**Foundations of User Experience (UX) Design**, *Coursera*

**Programming for Everybody (Getting Started with Python)**, *Coursera*

**Doing more with Google Sheets**, *Coursera*

## 📁 Projects

### PlantBot

2021 – 2022

- PlantBot is an automated bot that diagnosis the status of the plant. It takes care of the garden without any manual intervention.
- As a team lead, responsible for collaborating and conducting team meetings.
- Responsible for implementing hardware circuit and testing.
- Responsible for fixing the bugs.
- Designing and developing framework for simulating electronic circuits.
- Responsible for implementing and maintaining the electronics components within the budget.
- Created algorithm that determines the hue value of the object in front of the camera and detects the weed based on the hue value.
- Created the action of sowing the seeds along the path provided by the user.

### Wearable Health Monitor

2020 – 2021

- It is a smartwatch that collects body data like heartbeat, body temperature and also receives an alert if they face any abnormalities while exercising.
- As a team lead, responsible for managing team meetings.
- Responsible for implementing hardware circuit..
- Created the prototype using Blender which is a 3D graphics software tool.

## 🏆 Achievements

### IILM Sustainability Carnival PRME, 2021

- Our team of 5 secured the 5th place with a prize money INR 5000.
- We worked on the project "AEROLVE".

### R10 TENHUMCH(R 10 Humanitarian Challenges) Project, IEEE

Won 1st place for the project "AEROLVE" with R10 HTA support fund US \$2000.

### IBeTo, Excel 2019

Shortlisted to the technical innovation competition hosted by Govt. Model Engineering College, Kochi.

## Skills

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Circuit Design

Arduino

C++

Blender

PCB Designing

Python

Proteus

MATLAB

PSpice

Keil uVision

Interpersonal Skills

## Certificates

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### **AISYWC'19, IEEE India Council**

Attended AISYWC held during 28-30 Sep 2019  
at CMR Group of Institutions, Hyderabad.

### **Hack For Tomorrow, 2019**

## Workshops

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### **PCB Designing**

### **Arduino Workshop**

## Internships

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### **IOT**, *Institute of Human Resource Development*

Production and Maintenance Division,  
Regional Centre, Edappally, Kochi