

## ROMY JAMES P

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Ashtamichira, Thrissur, Kerala

Electronics and Communication Engineering graduate from Christ College of Engineering, Kerala. Actively upgrading knowledge and skills through various projects & courses. Seeking a professional environment where I can apply my skills for the development of the organization as well as enhance my capabilities through different experiences.

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## PROJECTS

- **Beta Based Approach on Unsynchronized EEG Waves in LFP Localisation for Movement Disorders** : Domain - Signal Processing **June 2023**  
Developed and implemented a beta-based approach to extract and process beta waves from EEG signals to generate pulse signals for effective control of the IPG used for patients with movement disorder.
- **Turning Table for Antenna** : Domain - Embedded System Design using Arduino **Oct 2022**  
Developed a turning table for antenna, a lab equipment which can rotate the antennas as per the angle that we provide as input. It was done as a part of upgrading a previous project.
- **REDO ROBOT** : Domain - Embedded System Design using Raspberry Pi **July 2022**  
A mini project done in Semester Six which demonstrated a path memorizing robot capable of remembering the path it traveled & redoing the actions repeatedly as needed. The robot can also be controlled by live camera vision.
- **Automated agriculture maintenance system based on plant growth** : **June 2022**  
Domain - Embedded System Design using Arduino & NodeMCU  
As a part of a Hackathon, developed a feedback based agriculture maintenance system for farmers integrating with ThingSpeak MQTT.
- **Angular Measurement Device** : Domain - Embedded System Design using Arduino **Jan 2021**  
Developed a device which can measure the angle that a shaft rotated from a fixed point. Gray code is used as the working principle of the device.
- **Object Tracker Robot** : Domain - Embedded System Design using Arduino **Jan 2020**  
Developed a robot which can track the movement of an object and follow them.

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## EDUCATION

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|---|--------------------|
| <b>B.Tech - APJ Abdul Kalam Technological University</b>  | <b>2019 – 2023</b> |
| <ul style="list-style-type: none"><li>- Christ College of Engineering, Irinjalakuda</li><li>- Electronics and Communication Engineering</li><li>- CGPA of 8.07/10</li></ul> |                    |
| <b>12<sup>th</sup> State Board - St. Antony's HSS, Mala</b>   | <b>2017 – 2019</b> |
| <ul style="list-style-type: none"><li>- Computer Science, Secured 88%</li></ul>   |                    |
| <b>10<sup>th</sup> State Board - St. Joseph's EMHSS, Aloor</b>  | <b>2017</b>        |
| <ul style="list-style-type: none"><li>- Secured 98.89%</li></ul>  |                    |

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## ACHIEVEMENTS

- Became one of the top 20 teams in the Byte Bending Championship 2023, a national level competition seeking the India's best embedded engineers organized by TWORKS, Hyderabad, an initiative of the Telangana government.

- Won the BEST PROJECT AWARD for the project 'REDO ROBOT' at the project expo organized by Electronics and Communication department of Christ College of Engineering.
  - Finalist in the 48 hours state level hackathon, 'Hackathly' conducted by IEDC, College of Engineering, Thalassery in association with Kerala Startup Mission(KSUM)
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## SKILLS

- Languages: English, Malayalam
  - Coding Languages - Python, C, C++, Java, HTML, CSS, Javascript, MERN Stack
  - Team player, Self Learner, Leadership, Adaptive, Logical Reasoning, Creative Thinking
  - Microcontrollers known - Arduino, NodeMCU, Raspberry Pi
  - PCB designing & circuit simulation tools - Altium, Proteus, Tinkercad.
  - Numerical tools - SCILAB & MATLAB
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## COURSES :

- **Full Stack Web Development Bootcamp - MERN STACK** **May 2024**  
Certified by Udemy and offered by Masyntech coding school, L.Shiva Pranay, SEO Digital Academy
  - **Object Oriented Programming in Java** **Dec 2023**  
Certified by Coursera and offered by University of California San Diego
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## INTERNSHIPS :

- **Deep Learning using Python** **May 2022**  
Successfully completed a 10 day online internship programme on 'Deep Learning using Python', organized by CDAC Trivandrum
  - **3D Printing and Modeling** **June 2022**  
Completed a one week internship organized by Alphasys 3D Printing Solutions in collaboration with VIT-SEDAXIS
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## WORKSHOPS & ACTIVITIES :

- Actively participated and coordinated class & department events as part of College Techfest Techletics 2022
  - Completed a 30 days of online training on Google Cloud - Qwiklabs
  - Completed one week online internship on CMOS VLSI design using XILINX ISE (April 2021).
  - Attended a 6 day national level online workshop on 'Programming essentials for Mathematics using Python' organized by CHRIST(Deemed to be university), Bangalore (August 2020)
  - Attended a webinar on Fundamentals of Robotics by IEEE SB SJCTET(April 2020).
  - Completed a week hands-on Drone development workshop by RoboCet, College of Engineering, Trivandrum and managed to build one from scratch. (March 2020)
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**INTERESTS :** Updating programming skills, Web designing, Working with embedded projects, Photo editing