R. SREEHARI

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🏠 Trivandrum, KERALA, INDIA

EDUCATION

B.Tech in Electronics and Communications Engineering
MAR BASELIOS COLLEGE OF ENGINEERING AND TECHNOLOGY (MBCET) / 2013 - 2017
CGPA: 7.17 / 10

SKILLS

- Comfortable with HTML, CSS, SASS, JavaScript, C++, Java, Python.
- Data structures and Algorithms, OOP Concepts, Robotics, Standard web practices.
- Web development using WordPress, HTML, CSS, JavaScript.
- Graphic Design, Image and Video Editing using adobe suite.
- Experience with GNU/Linux Operating System.

COMPETITIONS

- Graduate Aptitude Test in Engineering (GATE) 2020 – Rank **1746** (97.6 percentile)
- Graduate Aptitude Test in Engineering (GATE) 2019 – Rank **3180** (96.9 percentile)
- Graduate Aptitude Test in Engineering (GATE) 2018 – Rank **5450** (95.6 percentile)
- **First** in National Level Robotics Competition at **IIT Mumbai** for Robotic Arm, competing with more than 100 teams.
- **Second** in College Level competition for Sun Tracking Solar Panel, competing with 10+ teams.
- **Second** in College Level competition for Autonomous Mapping Robot, competing with 10+ teams.

EXPERIENCES

Intern / June – July 2015, June – July 2016 (2 months)
- **International Center for Free and Open Source Software (ICFOSS)** - Organization under Govt. of Kerala to promote FOSS.
- Worked on Internet-of-Things and created a Mother and Baby Monitoring System.
- Worked on Biomedical Applications and created a basic prototype for Brain-Computer Interface.

Student Ambassador / Aug 2015 - Aug 2017 (2 years)
- **International Center for Free and Open Source Software (ICFOSS)** - Organization under Govt. of Kerala to promote FOSS.
- Coordinated Events with a footfall of 500+.
- Started FOSS Cell in College.
- Introduced students and teachers to alternatives for paid proprietary software.

Taught Web Development and WordPress to a District-Wide class of strength 60.
Taught Photography and Image Editing to a District-Wide class of strength 30.
Taught Internet of Things and Arduino to a College-Wide class of strength 120.

LEADERSHIP ACTIVITIES AND INTERESTS

Chairman / June 2016 – June 2017 (1 year)
- **IEEE MBCET Student Branch**
- Strategically developed and implemented a 10-month plan which resulted in 40% increase of student membership.

Media and Design Head / June 2015 – June 2016 (1 year)
- **IEEE MBCET Student Branch**
- Increased social media traffic by 120%.

Secretary / June 2015 – June 2016 (1 year)
- **FOSS Cell Student Branch**
- Introduced students and teachers to alternatives for paid proprietary software.
- Introduced students to Linux and helped to install and use Ubuntu.

Volunteer for 20+ technical events across the state.
Coordinator 10+ technical events across the state.
Competed in 7 Hackathons with successful product development in each and winning prize in 2 of them.

PROJECTS

Solar tracker
- Solar Panel that always faces the sun and thereby increasing the power output by 30%.
- Coded using Arduino.

Autonomous mapper
- A robot that can autonomously create a 2D map of a given room.
- Coded using Arduino and Processing.

Automatic Pill dispenser
- A device that dispenses pills in the correct quantity at the correct time.
- Coded using Embedded C.

E-ma (Mother and Baby monitoring system)
- An IOT Device that monitors health of a mother and baby and provides interaction between them as well.
- Coded using Arduino and Thingspeak as the cloud platform.

A.R.E.S (Autonomous Ranging Exploration and Surveying)
- A drone which can perform Simultaneous Localization and Mapping thus enabling map creation.
- Coded using ROS, Python, C++, Arduino.

Brainiac (Brain-Computer Interface)
- A device that measures electrical activity in the brain and then infers actions imagined by the user.
- Coded using Arduino and Processing.

Interact (Interactive gesture-based control for windows applications)
- A Windows Application that uses Kinect to enable gesture control for Gaming and Presentation.
- Coded using C#.

Robotic Arm
- A Robotic Arm with pick and place functionality, controlled wirelessly – Won **first prize** in National Competition.
- Coded in Arduino.

Line Follower Robot
- A Robot that follows a line and races to the finish line.
- Coded in Embedded C.

Built Websites
- Website for College Fest.
- Website for International Conference held at MBCET.

Built a Quadcopter for fun