AKSHAYA SANAL
STUDENT

KOCHI, KERALA

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PROFESSIONAL PROFILE

A competent Engineering student pursuing Undergraduate Degree on Electronics and Communication from a reputed Engineering college at Kerala. Possessing good knowledge in electronics and believing in the power of team work and smart work to make things happen. Currently looking for good opportunities to enhance and develop skills.

CORE SKILLS

- ➢ C Programming
- ➢ Python
- ➢ Responsive Web Design
- ➢ HTML5
- ➢ CSS3
- ➢ Bootstrap
- ➢ Internet of Things (IoT)
- ➢ Microsoft Office

SOFT SKILLS

- ➢ Leadership qualities
- ➢ Teamwork
- ➢ Communication skills
- ➢ Management and organization skill
- ➢ Time Management
- ➢ Presentation Skills

EDUCATIONAL QUALIFICATION

1	B-TECH	MODEL ENGINEERING COLLEGE, THRIKKAKARA	2019 - 2023	9.76(as on 26-11-2020)
2	HIGHER SECONDARY (XII)	RAJAGIRI HIGHER SECONDARY SCHOOL, KALAMASSERY	2017 - 2019	98.25%
3	SSLC	RAJAGIRI HIGHER SECONDARY SCHOOL, KALAMASSERY	2017	95%

PROJECTS

➢ **WATER MONITORING ALERT SYSTEM WITH BOLTIOT CLOUD**

- o **October 23, 2020 – November 10, 2020**
- o **Water monitoring alert system using Boltiot Cloud was developed to monitor the water filling in roof top water tanks. Usual practise of switching off these motors are done on hearing the water that flows out of tank after it gets filled to a certain height. These noises created by water alerts us but this is causing the wastage of those precious drops in today's situation.**
To overcome this situation our monitoring device can be deployed in which the water sensor senses the water level inside the tank and once it reaches the threshold buzzer alarms and an alert message is sent to user via telegram, which alerts the user to switch it OFF without wasting any drop.
- o **Skills used:**
  - **Internet of things (IoT)**
  - **Bolt cloud**
  - **JavaScript**
  - **Python**
  - **Embedded Systems**
- o **Future scope: This project can be extended to An Automatic Water Filling System in which the water level is monitored and as it reaches threshold level, a message is sent via telegram and the motor gets OFF automatically. Similarly, as water level goes below a limit the motor gets ON automatically thus physical and mental presence of any person can be avoided to fill the tanks.**

➢ **PORTFOLIO ON KERALA – GOD'S OWN COUNTRY**

- o **May 21, 2020 – July 18, 2020**
- o **A portfolio on KERALA – GOD'S OWN COUNTRY was built by me from scratch as a capstone project to complete a specialization course by University of Michigan via Coursera. This website has 4 pages – a Home page, page on History, Art and Culture, Tourism. It had sticky footer, responsive design, carousel effect, lightbox effect, image overlay hover effect on large screens, font awesome, embedded google calendar and a form to reserve hotels, etc.**
- o **Skills used:**
  - **HTML**
  - **CSS**
  - **JAVASCRIPT**
  - **BOOTSTRAP (an extended version was made using bootstrap)**

➢ **FIBROIDS**

- o **July 2018 – November 2018**
- o **A research type project was done on FIBROIDS – uterine non-cancerous tumours in school level. This was a biology project in which we conducted a survey to collect a statistic of women with fibroids in our locality and analysed them to generalise the age group most prone to it. Interview with 4 doctors – Allopathy, Homeopathy, Ayurveda and Laparoscopic Surgeon was conducted to understand the medications and learn about the causes and effects of the same. From the resources we collected and analysed it was found to be common in women of age 30-50. The reasons and effects differ from person to person. People rush towards surgery without thinking about any other methods of medication.**

We conducted awareness class to our classmates and teachers in our school and also held a meeting with the chairperson of Kalamassery Municipality on its general reasons, effects, and different kinds of medication available.

- o **Skills used:**
  - **Data Collection**
  - **Data Analysis**
  - **Interviewing**
  - **Communication skill**
  - **Presentation Skill**
  - **Time Management**
  - **Team Work**
  - **Networking**
- o **Future scope: This can be extended to conduct awareness classes to the people, especially in rural parts of the country about such diseases. Compile Engineering and Biotechnology to develop medicine for the complete cure or to build a device for early detection of it.**

ORGANIZATIONS

1) **IETE**
2) **MIXED SIGNALS - MEC**

LANGUAGE PROFICIENCY

1) **English**
2) **Hindi**
3) **Malayalam**