



## S.SWATHI

### ELECTRONICS AND COMMUNICATION ENGINEERING



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#### AREA OF INTEREST

- Embedded Systems
- Control Systems

#### TECHNICAL PROFICIENCY

##### LANGUAGE

- C
- Embedded C

##### SIMULATION & SYNTHESIS TOOLS

- MPLAB IDE
- KEIL IDE

##### EDA TOOLS

- PROTEUS

##### PROTOCOLS

- USART
- SPI
- I<sup>2</sup>C

##### MICROCONTROLLERS

- PIC16F877A
- STM32F103C8

## CAREER OBJECTIVE

To obtain a challenging and responsible position to contribute for the successful growth of the organisation using my abilities and knowledge.

## EDUCATION



### DEGREE

2015 - 2019

Bannari Amman Institute of Technology  
Erode.

CGPA : 7.2



### HSC

2014 - 2015

SVGV Matriculation Higher Secondary School  
Karamadai

Percentage : 84 %



### SSLC

2012 - 2013

LEF Christian Matriculation School  
Mettupalayam

Percentage : 92 %

## PROJECT



### MQTT Based Hydroponic Farm

The project implements a completely automated hydroponic farm that collects various parameters of the farm and sends them to the user device via an MQTT server. The Node-RED framework is used to create a dashboard for the visualization of farm parameters by the user. ESP32 Wi-Fi controller is used to collect the data such as salinity level, PH level, amount of ambient light, dissolved oxygen level, and water level in the main reservoir of the farm. An MQTT server is built using Raspberry Pi 4 which receives data from ESP32. These data are published via the internet to the dashboard in the user's device. ESP32 is also connected to a series of relays that are used to actuate a set of valves and a pump to add appropriate nutrients to the water when required.

## CERTIFICATION



Completed C and Embedded C in **Career Vision Embedded Academy.**

## CO - CURRICULAR ACTIVITIES

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- Achieved an Overall score of 127 in Cambridge English Entry Level in ESOL International (Entry 2) (Business).
- Participated in the event "Line Follower" Conducted by Ramakrishna Engineering College at Coimbatore.

## EXTRA - CURRICULAR ACTIVITIES

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- The Organizer of a Tech-fest ConoZenza conducted by the department of Electronics and Communication Engineering at Bannari Amman Institute of Technology.
- The organizer of an event named Elocution in the Intercollege Technical Fest Conducted by Bannari Amman Institute of Technology.

## HOBBIES

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- Travelling
- Playing Shuttle, Throwball
- Dancing

## PERSONAL SKILLS

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- Good Team player
- Adaptability
- Communication skill

## DECLARATION

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I hereby declare that above mentioned information is correct to the best of my knowledge and belief.

**Date :** 30 - 12 - 2022

**Place :** Coimbatore

**Signature**

(Swathi . S)

