



# SHAHSADHI K S

SOFTWARE ENGINEER



7736033754



Ernakulam



shehzadhiks27@gmail.com

## ABOUT ME

Highly motivated and innovative software engineer with 11 months of experience at NeST Digital specializing in the Embedded industry. Demonstrated expertise in communication protocols, with a passion for creating immersive and interactive experiences. Possess a strong technical foundation and a deep understanding of software and hardware development principles, coupled with exceptional problem-solving abilities. Proven track record of delivering high-quality software solutions within tight deadlines. I am a dedicated team player and have experience working collaboratively with crossfunctional teams. Seeking opportunities to contribute my skills and knowledge to drive impactful technological advancements in the embedded developing and testing sectors.

## SKILLS

- Good Communication skills
- C (Excellent) , C++
- Embedded system  
(SPI,UART,I2C,RTOS,STM32, ATSAM)
- Python and Django
- Git
- Embedded system Testing

## LANGUAGES

- Malayalam ★★★★★
- English ★★★★★☆
- Hindi ★★★★★☆
- Arabic ★★★★★☆
- Tamil ★★★★★☆

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## SOFT SKILLS

- Good Leadership
- Problem solving
- Understandability
- Team work

## WORK EXPERIENCE

### NeST DIGITAL(KOCHI)

#### Software Engineer

- Worked under Healthcare business unit project.

### INTERNSHIPS

#### Python and Django

- Company : Avodha learning centre (Online)
- Duration : 1 year

#### Internet of Things

- Company : Allievo, learning centre, Kochi
- Duration : 10 days

#### Python and Data visualization

- Company: Shape AI (Online)
  - Duration: 7 days
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## EXTRA CURRICULAR ACTIVITIES

- Active member of NSS
  - Event management in Techfest Zealous 2018
  - ECE finance head in Techfest Zealous 2022
  - Active participation in flood relief campaign
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## PROFESSIONAL PROFILES

<https://www.linkedin.com/in/shahsadhi-k-s-b38088210>

## LICENSES & CERTIFICATIONS

- Learning C++ Pointers - LinkedIn
  - C Programming for Embedded Applications - LinkedIn
  - IoT Foundations: Operating Systems Fundamentals - LinkedIn
  - Secure Coding in C - LinkedIn
  - C++ Essential Training - LinkedIn
  - C++: Advanced Topics (2018) - LinkedIn
  - Parallel and Concurrent Programming with C++ Part 1 - LinkedIn
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## EDUCATION

### College Of Engineering Cherthala

2018-2022 (APJAKTU)

Electronics And Communication Engineering

### Govt H S S Central Calvathy

2016-2018 (STATE)

Computer science

### Fatima Girls High School Fortkochi

2016 (STATE)

## **PROJECTS (NeST DIGITAL)**

### **SMART MEDIC DISPLAY UNIT**

Smart medic Display Unit is a solution of monitoring the patient parameters in ICU or dialysis unit. It offer an effective solution for professionals to constantly monitor patients to provide better care. Enables an intensivist or ICU nurse to monitor patients weight and position remotely using Cloud IoT solutions and it keeps record of it. I played a part in developing HMI task, internal logging and also participated in Device testing

### **VENTILATOR**

A ventilator is a piece of medical technology that provides mechanical ventilation by moving breathable air into and out of the lungs to patients who are physically unable to breathe sufficiently. I worked briefly on developing the User Interface to operate the machine.

## **ACADEMIC PROJECTS**

### **PULSE OXIMETER**

Fingertip pulse oximeter with wireless alert system– Minor Project (B.Tech)

- The objective of the project is to build a separate wireless alarm for fingertip pulse oximeter.
- The project employs the use of ESP8266 WiFi module to receive the oxygen saturation levels from pulse oximeter and triggers the alarm through relay.

### **Li-Fi TECHNOLOGY**

Data Transmission using Li-Fi– Main Project (B.Tech)

- Light fidelity(Li-Fi) operates in the visible light spectrum of the electromagnetic(EM) spectrum and it uses visible light as a medium to transmit and receive the data.
- It transmit data through an LED light bulb that varies in intensity faster than human eye can follow.
- Arduino UNO and Arduino NANO can be used to receive and transmit the data. It produce data rates higher than 1Gbps which is much faster than our average broadband connection.