

SHASHANK SIMHA M R

Tech-Enthusiast

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A tech-enthusiast currently pursuing Bachelor's in Electronics and Communication Engineering. Interested in the field of Internet of Things and embedded systems. Also have good knowledge in developing websites and android applications.

Actively looking for opportunities for Research and Internships in the field of Embedded Systems, Internet of Things and Robotics.

EXPERIENCE

Jun 2019 – present

Summer Intern

Indian Institute of Science (IISc)

- Worked on Implementation of Trilateration algorithm (based on RSSI) on TI-RSLK.
- Developing a self localizing robot using Robot System Learning Kit and Zigbee module.

May 2019 – present

Hub Incharge - Mysore

IEEE Bangalore Section SAC

- Working as Webmaster for SYWL Congress 2019.
- Coordinating Website Task force of IEEE Bangalore Section.

Apr 2018 – present

Student Coordinator

IEEE India Council

- Been a part of Webinars and Online learning team.
- Leading a Website team of 5 for developing the official website for AISYWC'19.

Jun 2018 – May 2019

Vice-Chairperson

NIE IEEE Student Branch

- Led a team of 13 members, organizing over 70 events and 4 technical fests.
- Developed 2 Android apps and a Website for Events and Fests.
- Worked as the Website lead for AISYWC'18

EDUCATION

Aug 2016 – present

The National Institute of Engineering

Bachelor Degree

- Major: Electronics and Communication
- CGPA: 9.04(6 semesters)

Jul 2014 – Apr 2016

Maharaja's P.U. College

11th and 12th

- 12th Score: 92.50%

Jun 2011 – Apr 2014

J S S High School

Matriculation

- 10th Score: 92.80%

SKILLS & ABILITIES

Embedded Systems

Microcontrollers and Microprocessors: 8051, x86, Atmega, Arduino, ESP 8266, ESP 32, Raspberry Pi, MSP430, MSP432 etc.



Programming Languages and Tools: Assembly, Embedded C, Arduino, MicroPython, Keil uVision, Proteus



Kernel Programming, Shell Scripting Robot Operating System(ROS) and Real Time Operating Systems(RTOS)



Communication Protocols



Sensors, Actuators and Peripheral hardware



Electronic Circuit Board (or PCB) design and troubleshooting



Computer Programming

Programming Languages: C, C++, Java, Python, PHP



Full Stack Web Development



Databases: MySQL, MongoDB, PostgreSQL, Firebase



Frame works: Laravel, Flask, Bootstrap



Android Development



Computer Networks (IP Networking)



PROJECTS

Dec 2017

QM solver

A command line application(written in python) to find minimal expressions for digital circuits by implementing Quine Mcclusky Algorithm.

<https://github.com/shashank-simha/QuineMccluskey>

May 2018 – June 2018

NIE Summer of Code (Projects on ESP 32)

Projects like Web server, Bluetooth SD card reader, Remote Temperature logger, OTA, Web Client, etc. built using ESP 32 and SD card module.

<https://github.com/shashank-simha/NSoC5.0>

Dec 2018 – Feb 2018

FreeRTOS Projects

Implemetation of various features of FreeRTOS on ESP32 microcontroller.

<https://github.com/shashank-simha/FreeRTOS-Projects>

Aug 2018

Presenter

Android app for remotely controlling presentations built using RevealJS (Integrated with Google Firebase).

<https://github.com/shashank-simha/Presenter>

Jun 2018 - Oct 2018

AISSWC Website

Official website of All India Student-YP-WIE Congress 2018.

<https://github.com/shashank-simha/AISSWC>

Other Projects

All my public projects can be found at:

<https://github.com/shashank-simha/>

ACHIEVEMENTS

Technical

- Best Website Award - AISSWC'18

Others

- Secured state wise 2nd rank in National Means cum Merit Scholarship Exam (2011)

INTERESTS

Extra-curricular

- Cadet - National Cadet Corps (NCC)
- State level Swimmer

Hobbies

- Reading Novels
- Developing DIY projects