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 Languanges: 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
AISYWC Website
Official website of All India Student-YP-WIE Congress 2018.

https://github.com/shashank-simha/AISYWC

Other Projects
All my public projects can be found at:

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

ACHIEVEMENTS

Technical
- Best Website Award - AISYWC'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