

# SHASHANK SIMHA M R

## Tech-Enthusiast

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A tech-enthusiast currently pursuing Bachelors 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

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Jun 2019 – Aug 2019

### Summer Research Intern

*Indian Institute of Science (IISc)*

- Worked on Implementation of Trilateration algorithm (based on RSSI) on TI-RSLK.
- Developed a self localizing robot using Robot System Learning Kit and Zigbee module.
- Successfully demonstrated the project in TI-RSLK(Max) Global launch event.

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 Training team.
- Leading team of 5 members, 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

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Aug 2016 – present

### The National Institute of Engineering

*Bachelor Degree*

- Major: Electronics and Communication
- CGPA: 9.05 (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

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### Embedded Systems

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



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



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++, Python, PHP



Full Stack Web Development



Databases: MySQL, MongoDB, PostgreSQL, Firebase



Frame works: Laravel, Flask, Bootstrap



Android Development



Computer Networks (IP Networking)



## PROJECTS

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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

*Implementation 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

### **AI SYWC 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**

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### **Technical**

- Best Website Award - AISYWC'18

### **Others**

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

## **INTERESTS**

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### **Extra-curricular**

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

### **Hobbies**

- Reading Novels
- Developing DIY projects