Gujjula Sai Krishna Reddy

Student | Electrical & Electronics Engineering

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📍 Hyderabad, Telangana

💬 Summary

A diversely skilled embedded engineer with 1-year real time industry experience in designing robotic platform. Proven expertise in coding with C, Python and Java (Android Studio). Demonstrated abilities of working in a multidisciplinary environment which includes products with electrical, mechanical, IOT and software design.

💼 Experience

Intern

Voltino Systems LLP,   (July 2019 – Present)

Hyderabad, Telangana

- Collaborated with software, firmware and hardware engineers to develop a complete embedded solution.
- Developed embedded device drivers for external EEPROM and RTC chips (C lang), and integrated them into the existing system.
- Developed applications for Windows (Python) and Android (Android studio, Java) to configure the above embedded system.
- Established wireless communication between embedded system, windows app and android app using IOT (ESP8266).
- Significantly reduced the product development timeline by setting up a complete 3D Printing facility.

👷 Position of Responsibilities

The Robotics Club – SNIST

- Technical Advisory Board (TAB) Supervisor (July 2020 - Present)
- Technical Advisory Board (TAB) Executive (April 2019 – July 2020)
- Mentor (November 2018 – March 2019)

Roboveda

- Technical Deputy (July 2019 – Sept 2019)
- Pushpak Event Volunteer (Aug 2018 – Sept 2018)

🔨 Projects

1. **Autonomous Solar Panel Cleaner**
   (Feb 2019 – Mar 2019)
   Aims to Clean the dust accumulated on large solar panels. Dust on solar panels decreases its efficiency, this project helps to bring back the original efficiency without any human effort.

2. **Hexapod**   (May 2018 – June 2018)
   A 6-legged robot prototype inspired from spiders which can be used for border security surveillance and as a space rover in uneven, snowy and desert terrains.

🏆 Accomplishments

- Stood 2nd in the Google Hash Code in SNIST (796th in India, 4306th in the world). (Feb 2020)
- Stood 1st in Project Expo in Vasavi College of Engineering. (March 2019)
- Stood 2nd in Central Hackathon conducted among the winners of 15 Hackathons (3500 participants), conducted by J-Hub, JNTU-H. (March 2019)
- Stood 2nd in MSME Hackathon conducted by J-Hub and Sreenidhi-Hub in SNIST. (Feb 2019)

⚙ Skills

- Embedded Software Development
- IOT with ESP8266
- Android Studio
- C Language
- Python
- Java

🎗 Certifications

- Mastering Microcontroller with Embedded Driver Development. (Udemy)
- Embedded Systems Programming on ARM Cortex – M3/M4 Processor. (Udemy)
- STM32Fx Microcontroller Custom Bootloader Development. (Udemy)
- Embedded Linux Step by Step using Beaglebone Black. (Udemy)
- Mastering Microcontroller: Timers, PWM, CAN, RTC, Low Power. (Udemy)

🎓 Education

B.Tech   August 2017 - Present
Electrical & Electronics Engineering
Sreenidhi Institute of Science & Technology
Hyderabad, Telangana
CGPA – 7

Intermediate   June 2015 – May 2017
MPC
Sri Chaitanya Junior College
Hyderabad, Telangana
88.7%

SSC   June 2014 – May 2015
St. Joseph's High School
Hyderabad, Telangana
GPA – 7.5