

Rahul Reddy V

4th Year B-Tech Student

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Intelligence is getting lost in your own wonders

Education

- 2017-Present **B.E.(Electronics and Communication)**, PESIT-BSC, Bengaluru.
VTU
- 2015-2017 **PUC(10+2)**, Jain College, Bengaluru, 72%.
K-PUC
- 2014-2015 **Class X**, India International School, Bengaluru, 78%.
ICSE

Tools Known

- | | | | |
|---------------------|---------|-----------------|--------------|
| Arduino (Uno, Mega) | Advance | ○ Xilinx Vivado | Intermediate |
| NodeMCU (ESP8266) | Advance | ○ SolidEdge | Intermediate |
| Raspberry Pi | Advance | ○ MatLab | Beginner |

Programming Languages

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|---------|--------------|-----------------------------------|--------------|
| C & C++ | Intermediate | ○ Linux CLI | Intermediate |
| Python3 | Intermediate | ○ L ^A T _E X | Intermediate |
| Verilog | Intermediate | | |
| VHDL | Intermediate | | |

Online Certifications

- | | | |
|---|----------|---|
| Ethical Hacking | Beginner | Successfully Completed Udemy Online Certification in Ethical Hacking |
| Complete Ethical Hacking | Advance | Successfully Completed Udemy Online Certification in Ethical Hacking by Zaid Sabih from Z Security |
| The Ultimate Dark Web, Anonymity, Privacy & Security Course | Advance | Successfully Completed Udemy Online Certification in The Ultimate Dark Web, Anonymity, Privacy & Security Course by Zaid Sabih from Z Security |
| Social Engineering | Advance | Successfully Completed Udemy Online Certification in Social Engineering Course by Zaid Sabih from Z Security |

Website Hacking, Penetration Testing & Bug Bounty Hunting	Advance	Successfully Completed Udemy Online Certification in Website Hacking, Penetration Testing & Bug Bounty Hunting Course by Zaid Sabih from Z Security
Welcome to Embedded Systems Bare-Metal Programming Ground Up (STM32)	Advance	Successfully Completed Udemy Online Certification in Welcome to Embedded Systems Bare-Metal Programming Ground Up (STM32)
Embedded Systems Programming on ARM Cortex-M3/M4 Processor	Advance	Successfully Completed Udemy Online Certification in Embedded Systems Programming on ARM Cortex-M3/M4 Processor

Projects Done

Remote Controlled Solar chargeable Night Patrolling Robot

Oct 2020 - till date (Final Year Project) This project is a **python-based** project. The Robot is based of **Raspberry Pi** controlled by keyboard on a LAN Computer with advance security features.

Voice Controlled Home Automation Using MicroPython

Dec 2019 - Jul 2020 This project is a **python-based** project. In this project, server takes voice commands from the user to perform tasks. The key concept involved in this project are TCP-IP socket communication. It makes use of **Google speech to text API**. This project also involves the use of **MicroPython** supported boards. **GitHub Repository Linked up in the contact information.**

Parking Assist with Drones

Nov 2019 - Present **IICDC-2019 by Texas Instruments** Using **autonomous guiding system** we are implementing a parking system using **drones**. It increases the parking system efficiency by finding free spots, and the **shortest path to those spots** which would be based on optimized algorithms. These **coordinated drones guide the cars to its parking spots** and return to self-charge. Using **image processing** a sense of vision is provided to our drones which enables it to **tag vehicles and route accordingly in the area**. My Contribution in this project was to assemble, test and troubleshoot the **hardware part of the Drones** and **Computer perception sense programming using AI to auto-pilot the drones**

Smart Real Time Waste Segregator

30-31 Mar 2019 **Kludge 6.0** We made a **real-time waste segregator** which can **identify the type of waste and put them in different bins accordingly and automatically**, can tell when the bin is full, its weight and also communicate to designed android application thereby regulating garbage collection and disposal. My Contribution in this project was to assemble, test and troubleshoot the hardware part like **Arduino Mega, Stepper Motor, Moisture Sensor, Ultrasonic Sensor, Mechanical movement of the lid by Servo Motor**

Workshops Attended

Artificial Intelligence and Machine Learning Workshop, IISC Bengaluru

1-2 Feb 2020 Two Days Workshop on Artificial Intelligence and Machine Learning

Blockchain Workshop, PESIT Bengaluru South Campus

9 Feb 2020 One Day(15 hours) Workshop on Blockchain by Tezos India Foundation

Embedded Systems Workshop, IISC Bengaluru

Jan 2018 A Two Day Workshop on Embedded Systems

Robotics with Arduino Workshop, PESIT Bengaluru South Campus

2017 One Day Workshop on Robotics with Arduino by IEEE

Areas of Interest

- Embedded Systems
- Internet of Things(IoT)
- Robotics
- Ethical Hacking
- Digital Electronics
- VLSI Design

Hobbies

- Ethical Hacking
- Latest Technology Research
- Football, Badminton

Reference

Mr.Ananda M Assistant Professor, PESIT-BSC, Bengaluru.
anandam@pes.edu

Mr.Bivas Assistant Professor, PESIT-BSC, Bengaluru.
Bhattacharya bivas@pes.edu

Personal Details

Date of birth	May 31 st ,1998	Father's Name	N. Venkatesh Reddy
Languages known	English, Kannada, Hindi, Telugu	Mother's Name	K.S. Chandrakala