RISHAV SINGH

VLSI Enthusiast eager to contribute to team success through hard work, attention to detail and excellent leadership skills. Clear understanding of FPGA, Linux and OS related technologies. Good grip over Data Structures and Algorithm Concepts.

CONTACT

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- ⌨ @rishav-singh-0
- in Rishav Singh
- 👤 Rishav's Blog

SKILLS

Programming Languages
Python
C, C++
Bash
Assembly(8086)
Dart

Hardware Languages
Verilog HDL

Technologies
Robot Operating System
8086 Microprocessor
React
Django
Flutter
Firebase

Software & Tools
Scilab
Ltspice
Keil μVision
Proteus, Multisim
Docker
Git

Operating Systems
Ubuntu, Arch Linux
Windows

CAD Tools
Quartus
Modelsim
Vivado

🎓 EDUCATION

B.Tech. in Electronics & Communication Engineering
CGPA - 8.65/10

📅 July 2019 - May 2023
📍 Dharmsinh Desai University Nadiad

HSC (GHSEB)

PR - 80.9/100

📅 June 2019
📍 Shree P. V. Modi School Jamnagar

⚙ PROFESSIONAL EXPERIENCE

Intern at eYantra, IIT Bombay
- → Optimized auto evaluation tool for working on Linux kernels
- → Created and connected Django backend with Vue frontend and automated dynamic docker container generation on submission and result evaluation

📅 May 2021 - Jul 2021
📍 Bombay

Tech Lead at Abhiyanta Community
- → Mentored at project based learning platform by adding value through training and motivating innovators
- → Instructor for explaining the concepts of Robotics, Robot Operating Systems, Linux, Git and Embedded Systems

📅 Sep 2020 - Current
📍 Nadiad

Associate Developer at DDU Connect
- → Created a team of developers for DDU Connect's official website and Android Application

📅 May 2019 - Current
📍 Nadiad

🚀 PROJECTS

Vitarana Drone
- ⚙ Technology: Python, ROS, Drone, Gazebo, Git
- → Used Robot Operating System(ROS) for Autonomous Drone based delivery system in a simulated environment
- → Learned about team management and task division and distribution for achieving larger goals

📅 Oct 2020 - Feb 2021
🔗 link

Industrial Surveillance Robot on FPGA
- ⚙ Technology: Verilog, FPGA, Quartus
- → A FPGA based robot simulation for measuring the important industrial parameters using different sensors
- → Armed with IoT gate way to analyze the required parameters

📅 Jan 2022 - Mar 2022
🔗 link

IoT based Hydroponics(Govt. Granted)
- ⚙ Technology: C++, Flutter, Firebase
- → A Gujarat government granted(SSIP) project to modify hydroponics based farming system with IoT in order to improve quality of soil less farming
- → Connected the hydroponics plant to the cloud server for data storage and control through flutter android app

📅 Apr 2022 - Jun 2022
🔗 link

Linux Kernel Configuration
- ⚙ Technology: OS Components, Linux, Kernel
- → Configured Linux kernel for better power consumption, security and performance

📅 Jun 2021 - Jul 2021
🔗 link

🏆 ACHIEVEMENTS

- **Led** the team to pre-finals round in eYantra Robotics Competetion and were in **top 20** among **2603 teams of 572 colleges** all over the globe
- Grade B in Embedded Mooc
- Campus Ambassador at eYantra, IIT Bombay

🎓 COURSES

- VLSI SoC Design using Verilog HDL - Maven Silicon
- Embedded Systems and Robotics Mooc - eYantra IIT Bombay
- Practical Linux for Network Engineers - Udemy

🚀 OTHER PROJECTS

Abhiyanta Community Website
📅 Jul 2020 - Oct 2020
🔗 link

⚙ Technology: React, Git, Github, Firebase, CI/CD
→ Learnt to host the website on firebase
→ Used github for automation and continuous deployment

Personal Website using bash and markdown
📅 Mar 2021 - Apr 2021
🔗 link

⚙ Technology: Bash, Markdown, Git, Github, CI/CD
→ Achieved the goal of a minimal static site generator using bash and markdown files
→ Automated CI/CD with github actions and hosted on github-pages

Crypto and Stocks Analysing Bot
📅 Oct 2021 - Nov 2021
🔗 link

⚙ Technology: Django, Redis, Docker, TALib
→ Realtime data fetching and applying technical indicators on selected symbols
→ Backtesting of custom strategies and displaying result on charts

Jellyfin Media Server using resberry-pi3
📅 July 2022 - Aug 2022

⚙ Technology: RespberryPi

✏️ EXTRA-CURRICULAR ACTIVITIES

- Technical blog and documentation writing
- Tweaking linux desktop environments