

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. Motivated to learn and grow in the industry.



CONTACT

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 @rishav-singh-0
 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
Ltspace
Keil μ Vision
Proteus, Multisim
Docker
Git

Operating Systems



Ubuntu, Arch Linux
Windows

CAD Tools

Quartus
Modelsim
Vivado

EDUCATION

B.Tech in Electronics and
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

 May 2021 - Jul 2021
 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.

Tech Lead at Abhiyanta

 Sep 2020 - Current
 Nadiad

- Managed team performance by training, mentoring, disciplining and motivating innovators.
- Instructor for explaining the concepts of Robotics, Robot Operating Systems, Linux, Git and Embedded Systems. Working on application based projects.



Associate Developer at DDU Connect


 May 2019 - Current
 Nadiad

- Worked with a team of developers for DDU Connect's official website and Android Application.



PROJECTS


Vitarana Drone

 Oct 2020 - Feb 2021
 link



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


Industrial Surveillance Robot on FPGA

 Jan 2022 - Mar 2022
 link



-  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


IoT in Hydroponics

 Apr 2022 - Jun 2022
 link

-  Technology: C++, Flutter, Firebase
- A government granted 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

Linux Kernel Configuration

 Jun 2021 - Jul 2021
 link

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

ACHIEVEMENTS



- **Led** the team to reach till pre-finals round in eYantra Robotics Competition 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
- Practical Linux for Network Engineers

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 raspberry-pi3

 July 2022 - Aug 2022

 Technology: RasperryPi

EXTRA-CURRICULAR ACTIVITIES

- Technical blog and documentation writing
- Tweaking linux desktop environments