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
Rishav's Blog

SKILLS

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

Hardware Languages
Verilog HDL

Technologies
Robot Operating System
React
Django
Flutter
Firebase

Software & Tools
Scilab
Ltspice
8086 Microprocessor
Keil µVision
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

PCM with Computer Science
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 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

- **Leaded** the team to reach till 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
- 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 resberry-pi3

July 2022 - Aug 2022

Technology: RespberryPi

EXTRA-CURRICULAR ACTIVITIES

- Technical blog and documentation writing
- Tweaking linux desktop environments