CURRICULUM VITAE

Rakesh Veerapaneni

Robotics Engineer

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PROFILE SUMMARY

As a Robotics Engineer and visionary leader, I have consistently driven innovation by developing and implementing state-of-the-art robotic systems. My expertise lies in seamlessly integrating hardware and software to design autonomous robots capable of addressing complex real-world problems. Passionate about advancing the frontiers of automation, AI, and machine learning, I am committed to creating impactful solutions that transform industries. I leverage both technical and strategic insights, thriving in fast-paced environments while collaborating across teams to achieve exceptional results.

EDUCATION

Bachelor's of Technology in Robotics Engineering
From Swarnandhra College of Engineering and Technology
7.25 CGPA UPTO 4TH YEAR, (2020-2024).

Completed Intermediate
Sri Sai Junior College Kanigiri, (2018-2020), GPA: 5.0

Studied SSC in Z.P.High school
 Peddacherllopalli A.P, (2017-2018), GPA: 8.8

SKILLS

PROGRAMMING SKILLS: C | PYTHON | ARDUINO | RASPBERRY PI.
WEB TECHNOLOGY:
- FRONT-END TECHNOLOGY: HTML 5 | CSS | JAVA.
- BACK-END TECHNOLOGY: PYTHON | JAVA | PHP.

FRAMEWORK'S: DJANGO.
WEB SERVICES: REST API
OPERATING SYSTEMS: WINDOWS | LINUX.
TOOLS: VISUAL STUDIO CODE | GIT-HUB
CORE SKILLS: ROBO STUDIO | ROBO ANALYZER | CAD | IGUS CONTROLLER | MPMC | IOT| ROS |.
BASICS OF: EMBEDDED SYSTEMS | PLC PROGRAMMING | MATLAB | DBMS.

INTERNSHIPS

✔ International Internship in Advance Certificate on Emerging Technologies(ARC) From APSSDC & Indo-Euro Synchronization(IES)Germany During Aug 29th - Oct 21st 2022(Virtual & Live Intern)

✔ IOT Intern at TRIGOVEX TECHNOLOGIES(Virtual Intern with live offline Project) From Aug-08 to Sep 10 2022.

✔ Network Addressing and Basic Troubleshooting (Virtual Intern) During Jun 14, 2023 End Date: Jun 21, 2023 by Cisco Networking Academy.

✔ Ethical Hacking for the Everyday Developer(Virtual Intern) During Mar 03, 2023 End Date: Jun 08, 2023 by Infosys.

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✔ Hybrid Diesel Electric Vehicle Intern in DRIVE DOCK pvt.ltd from Germany.

    ◆ Role: Team Lead, Part sourcing & Assembling

Dt: Mar 10-2023 – june 2023.

PROJECTS

1. Motion control pick and place robot by using Raspberry pi.
- It was selected for SRISHTI 2022-National Level Technical Project Exhibition. & It was selected in SIH (SMART INDIA HACKTHON) Finalist.
- Role & Responsibilities: Team Lead, Coding & Circuit design

2. Obstacle avoiding robot(by using servo motors & Arduino Board)
- National Level Stem Fest Srujana 2k22 Project Expo (2nd prize).
- Role & Responsibilities: Team lead & Assembling

3. IOT surveillance camera drone by using pixhawk & Raspberry pi.
- For college usage purpose
- Role & Responsibilities: Team Lead, Assembling, Controller(operator)

4. Chess Playing Gantry robot by using Raspberry pi & stepper motors.
- This project is a Innovative Technical project, we made it for company proposal from my college side (Milatronics Private Limited)
- Role & Responsibilities: Part Sourcing, Some Coding Part, Operator.

5. Solar Powered electrical vehicle.
- We made This Product for college usage purpose and NAAC & NBA Inspection time, we shown our idea to the inspectors from NAAC team and some Bank officers, Companies(so we submitted this our Mini Project).
- Responsibilities: Designer, Team-lead, Electronics-Communication-Part, Driving

6. Hover Bike (FLYING DRONE), Simulation completed.
- We started this project for showing our idea into real world, it's a future concept idea some lake of issues we stopped this project, just completed simulation
- Role & Responsibilities: Team lead, Design, Problem Solver.

7. Automatic Wheel truing Machine.
- For Company Proposal to Our College, And it is done Simulation analysis by us.
- Role &Responsibilities: Team lead, Designer, Problem Creator & Solver, Electronics Communication Part, Part Sourcing.

8. On Road Vehicle Brake Down Assistance System.
- IDE used: VS code Software's: HTML, CSS, JS, DBMS, ANDROID STUDIO
- Role & Responsibilities: Team lead, Fronted Developer.

9. Elite E Learning Platform.
- IDE used: VS code Software's: HTML, CSS, JS, Django, ANDROID STUDIO
- Role & Responsibilities: Team lead, Fronted Developer.

CERTIFICATES

1) **Front End Development** - course completion from Great Learning.
2) **Data Visualization using Python** - course completion from Great Learning.
3) **Robotics Process Automation** course completion from Great Learning FEb 2024.
4) **AI In Healthcare** course completion from Great Learning FEB 2024.
5) **STEM Components** course completion from Great Learning JAN 2024.
6) **Igus, PLC programming & ROS (ARC - Applied Robotics Control)** - course completed and **Conducted by AICT & Indo European Skilling Centers for Mechatronics & Industrial Robotics Germany.**
7) **Statistics for Machine Learning** - course completion from Great Learning.
8) **Introduction to Machine Learning -** course completion from Infosys.

9) **IOT Edge Computing and IOT Analytic -** course completion from Infosys.

10) Got Participate certificate in Solve for Tomorrow Computation Conducted by SAMSUMNG Company 2023.

JOURNALS

1. Human factors for holistic safety in CASE of autonomous vehicles -- HBRP Publications DOI: https://doi.org/10.5281/zenodo.7825363.
2. Human Robot Interaction(HRI) -- Paper ID 158883 | ijirt.org
3. Problem & Solution for Bias and Fairness in AI Robotics -- Paper - IJNRD189823 | IJNRD (ISSN:2456-4184) | www.ijnrd.org.
4. Technology and Innovation Management -- Paper ID:IJCRT2304500 | www.ijcrt.org
5. Ethical and Social Implications of Bio-robotics in Biotechnology: Advancing Communication and Understanding -- (IJBTT) ISSN: 2249–0183.

INTERNATIONAL CONFERENCES

- "International conference on Advanced Materials, Modern Manufacturing and Computerized Automation" (IAMMCA-2023), organized by Department of Mechanical Engineering on 23rd & 24th June, 2023.

  Presented paper entitled SOFT ROBOTICS: REVOLUTIONIZING AUTOMATION THROUGH FLEXIBLE AND ADAPTIVE SYSTEMS (PAPER ID: IAMMCA-97)

ORGANIZATIONS

1) Voluntary in AACHARANA CHARITABLE TRUST 2021- Till Now & 2022 may to Till Now Team Lead, coordinator.

2) Robotics Club Secretary in my College, It was started by me in 2023.

3) Student Member in Indian Society for Technical Education New Delhi-110016 Institute code:AP075

STRENGTH

1. Good Communication Skills.
2. Team Building & Bonding Skills
3. Creative & Analytical Thinking
4. Never give up things easily