

CURRICULUM VITAE

GADDAM RAKESH

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Career Objectives:

Willing to build a career with leading corporate of good environment with committed and dedicated people, which will help me to explore myself fully and realize my potential. Intend to utilize all of my knowledge in developing and exploring the new technologies.

Career Summary:

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- Having 2.9 years of experience as an Embedded Engineer.
 - Done projects on Academy level kit based one.
 - Having knowledge in IOT platform. And I can able to collect data from different modules and different sensors etc., and sending that data into server (Thingspeak).
 - Good in dealing with 8, 16-bit microcontrollers like 8051, ATMEGA328, 328P, ATMEGA2560, ESP8266, RP2040.
 - Experience in programming languages C, Embedded C.

Work Experience:

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- Embedded Developer at Vertulonix (P) Ltd, Hyderabad from April 2020 to April 2022
 - Embedded Developer at Sellcraft Global Solutions Pvt Ltd (TCS) from May 2022 to September 2022
 - Software Engineer at Kernex Microsystems India Limited from December 2022 to March 2023.
 - Well, understanding of serial communication.
 - Worked on wireless devices using UART, I2C, SPI Protocol.
 - Having hand on experience on different controllers and mostly worked on C, Embedded C.
 - Hand on experience in Hardware Testing.

Technical Skills:

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- **Languages:** C, Embedded C.
 - **Operating Systems:** Windows, basics of Ubuntu.
 - **Protocols:** I2C, UART, SPI.

- **Development Tools:** Keil μ Vision IDE, Arduino IDE.
- **Hardware:** Can understand Schematic, PCB Design, Testing, Hands on with Digital Multi-meter, Oscilloscope, Development Boards.
- **Debugging:** Solving software bugs on ESP8266, HC05, SIM800, 900, & Serial Communication Devices.

Professional Projects:

Project - #1: TRAIN COLLISION AVOIDANCE SYSTEM TCAS (KAVACH)

Environment: Embedded C, KEIL μ vision 5.

Company: Kernex Microsystems India Limited.

Team Size: 15 members.

Duration: Dec 2022 to march 2023.

Description:

The focus of the Indian Railways is to increase capacity utilization of existing assets including rolling stock, track infrastructure, traction power and signalling & telecommunications. By running more high speed trains on the existing infrastructure, passengers and freight carrying capacity as well as revenue and profitability can be increased. In order to ensure safety over high speed and high density rail networks of Indian Railways it is the need of the hour to implement Automatic Train Protection (ATP) system such as Train Collision Avoidance System (TCAS). Indian Railways have taken up indigenous development of Train Collision Avoidance System (TCAS) through Research Designs & Standards Organization (RDSO) to prevent dangerous train collisions caused due to human errors or limitations and equipment failures by providing additional layer of enhanced safety in the operations.

Project - #2: AUTOMOTIVE CYBERSECURITY FOR MIRROR EYE-2

Environment: Embedded C, KEIL μ vision 5.

Company: Tata Consultancy Services .

Team Size: 15 members.

Duration: March 2022 to Sep 2022.

Description:

The Stoneridge MirrorEye Camera Monitor System replaces a commercial truck's mirrors with integrated external digital cameras and digital monitors inside the cab of the truck. MirrorEye CMS eliminates driver blind spots, provides a greater field of view and improves safety for everyone on the road – day and night. Removing the wing mirrors removes a huge blind spot that makes it hard for drivers to see smaller road users like motorcyclists and cyclists

when approaching an intersections, or pedestrians waiting at a crossing. Cameras can adjust to low light levels and provide an enhanced image giving the driver a better view at night, and it can reduce the glare from headlights.

If you use two or more drivers, or you're pulling a variety of trailers, systems can store different preferences that remember settings.

As the display is a video display, graphical overlays can be used to help the driver make decisions, such as lines that represent distances. Expect that these kinds of systems will get more intelligent over time, possibly even helping the driver align perfectly when reversing. The MirrorCam system can work in with other Mercedes safety products to warn of other vehicles next to the truck.

Project - #3: AUTOMATIC FACE MASK DETECTION AND TEMPERATURE CHECKING SYSTEM

Environment: Embedded C, ESP8266 Camera.

Company: Vertulonix (P) Ltd.

Team Size: 4 members.

Duration: July 2021 to Dec 2021.

Description:

The camera is used to scan for mask and temperature sensor for forehead temperature. The raspberry processes the sensor inputs and decides whether the person is to be allowed. In this case the system operates a motor to open the barrier allowing the person to enter the premises. If a person is flagged by system for high temperature or no Mask the system glows the red light and bars the person from entry. This total operation controlled by ESP8266.

Roles and Responsibilities:

- Firmware Development.
- Device assembling.
- Testing Process.
- Involved in maintaining project documentation.

Soft skills:

Good logical ability, systematic problem analysis, good communication, dedication towards work, ability to work with teams and effective time management.

Education:

Mahaveer Institute of Science and Technology-Hyderabad

Bachelor of Technology in EEE, Apr 2018.

- 67.77%.

Vignan Junior College Ranga Reddy, Telangana.

10+2 Passed Out (MPC): Apr 2013.

- 90.9%.

Holi Spirit High School, Ranga Reddy, Telangana.

SSC Passed Out: May 2011.

- 81%.

Personal Profile:

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|-------------------|---|
| Name | : Rakesh Gaddam. |
| Father's name | : Satyanarayana. |
| Date of birth | : October 12 th 1995. |
| Nationality | : Indian. |
| Permanent address | : H. No: 3-52, (V) Thallapally, (M) Shabad, (D) Rangareddy, Telangana, 503218. |

Declaration:

I consider myself familiar with technical aspects. I again reiterate my confidence and ability to work in a team. I hereby declare that all the information that is provided in the resume is truth to the best of my knowledge.

Date:

Place: Hyderabad

G. RAKESH