

NITESH REDDY

The role you are applying for?

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Summary

As an electronics and computer science engineer, I am passionate about exploring the ever-evolving world of technology and its limitless possibilities. From designing cutting-edge electronics to crafting innovative software solutions, I thrive on pushing the boundaries of what's possible. Let's embark on a journey of innovation and discovery together, shaping the future of technology!

Education

Johnson Grammar School	Hyderabad
Secondary education Percentage: 87.83%	2018
Fiitjee Junior College	Hyderabad
Intermediate education Percentage: 93.6%	2018 - 2020
Mahindra University	Hyderabad
B Tech in electronics and computer engineering, GPA: 7.59 / 10.0	2020 - Present

Experience

Nuclear Fuel Complex , DAE	Hyderabad
Title : Data acquisition from an electron beam melting furnace.	01/2023 - 02/2023
<ul style="list-style-type: none">Collected temperature readings from the furnace using a thermocouple sensor.Communicated data via Mod-bus protocol using RS-232 and RS-485 serial communication .Utilized Python modules like PyModbus, matplotlib to plot and visualize real-time data	
Directorate of special projects, DRDO	Hyderabad
Title: Implementation of MIL-STD-1553 using Arduino Uno.	06/2023 - 08/2023
<ul style="list-style-type: none">Worked on interfacing ATmega328P micro-controller with BU 61580 ACE (Advanced Communication Engine).Research on communication and data transfer via MIL-STD-1553 protocol.Gained practical experience in embedded systems and micro-controller programming.Strengthened knowledge of aerospace and defense communication standards.Which of your achievements match the job you're applying to?	

Projects

Crowd source air quality machine

Short summary of your work

- Developed a real-time monitoring system using Arduino Uno to collect gas sensor and accelerometer readings.
- Enabled Bluetooth communication to transmit the data to the user interface for seamless interaction.
- Utilized machine learning algorithms to create informative heat-maps, effectively visualizing the data and identifying patterns.

Smart Farming

Short summary of your work

- Built an efficient farming bot for automated irrigation using soil moisture content measurements.
- Utilized cutting-edge technology to optimize farming techniques and resource management.
- Worked on improving agricultural productivity and water efficiency.

AI photography bot

Short summary of your work

- Part of building an adaptive photography bot capable of automatically capturing images based on surrounding conditions.
- Implemented Arduino-based code to detect and adjust brightness levels for optimal picture quality.

Achievements

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|  Academic scholarship <ul style="list-style-type: none">• Merit Scholarship Recipient: Awarded Rs 1,00,000 scholarship for exceptional academic performance during the academic year 2021-2022, recognizing consistent excellence in grades and dedication to academic pursuits |  SAE Aero Design Challenge <ul style="list-style-type: none">• Ranked 18th in SAE Aero Design Challenge, Southern Section of India in regular class category. |  Cricket <ul style="list-style-type: none">• Secured the runner-up position in the annual sports fest AIRO, showcasing sportsmanship and dedication in competitive events at the university level. |
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Extra - curricular activities

Hult Prize

- Logistics team member 03/2021 - 06/2022
- Played a key role in organizing and coordinating various campus-wide events, demonstrating strong organizational and teamwork skills in contributing to the success of the Hult Prize Club initiatives.

Entrepreneurship and innovation cell

- Logistics team member 09/2022 - 05/2023
- Actively contributed to the organization and execution of diverse events, exposing students to the multifaceted entrepreneurial lifestyle.

Aero Club

- Technical team member 01/2021 - Present
- Involved in designing, building, and piloting radio-controlled planes and autonomous drones, showcasing a strong passion for aviation technology and collaborative teamwork.
 - Engaged in regular workshops and skill-sharing sessions to continuously improve knowledge of aviation technology and related disciplines.