Harika Devarapalli

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CARRER OVERVIEW

Energetic and forward-thinking B.Tech student in Electronics and Communication Engineering (ECE), currently in the third year, actively seeking opportunities to kickstart a career in the industry. Adept at assimilating complex technical concepts, with a focus on electronic circuits, communication systems, and emerging technologies. Eager to apply academic learning in a real-world setting, bringing enthusiasm, adaptability, and a fresh perspective to contribute effectively to a dynamic work environment.

EDUCATION

Bachelor of Technology in Electronics and Communication Engineering (VLSI Specialization)
Koneru Lakshmaiah Deemed to be University · Vaddeswaram, Andhra Pradesh · 2021-2025 · 9.68 CGPA

Class XII in MPC
Sri Chaitanya Junior College · Srikakulam, Andhra Pradesh · 2020-2021 · 97.6%

SSC
Sri Chaitanya School · Srikakulam, Andhra Pradesh · 2018-2019 · 9.7 CGPA

CERTIFICATIONS

Very-Large-Scale Integration
Coincent · 01st Jul, 2023 to 15th Aug, 2023
· The Very-Large-Scale Integration (VLSI) validates expertise in designing complex integrated circuits, crucial for modern electronics. This certification signifies advanced skills in semiconductor technology, enabling professionals to contribute to cutting-edge innovations in electronic systems. It enhances career prospects in the semiconductor industry and related fields.

VLSI - DESIGN AND VERIFICATION
TESSOLVE Semiconductors Private Limited · 17th May, 2023 to 30th May, 2023
· The "VLSI - Design and Verification" demonstrates expertise in designing and verifying Very Large Scale Integration (VLSI) circuits, essential for semiconductor industry roles. This certification validates advanced skills in implementing efficient and error-free chip designs, enhancing career prospects in the field of integrated circuit development.

FUNDAMENTALS OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING
TESSOLVE Semiconductors Private Limited · 06th Mar, 2023 to 13th Mar, 2023
· The "Fundamentals of Artificial Intelligence & Machine Learning" signifies foundational knowledge in AI and ML concepts, validating essential skills for data analysis and algorithm implementation. This certification enhances career prospects by showcasing competence in key areas of artificial intelligence and machine learning, crucial in today's tech-driven industries.

PROJECTS

IntelliGuard Alcohol Detection and Engine Lock System
Koneru Lakshmaiah Deemed to be University
· This project utilizes an MQ-3 alcohol sensor to detect alcohol levels, categorizing them into sober, legal drinking, or drunk states based on predefined thresholds. It communicates the status via the serial monitor. Additionally, the system controls an LED and motor: above a threshold value, the LED activates with PWM, and the motor deactivates; otherwise, the LED turns off, and the motor activates. A 2-second delay precedes each subsequent sensor reading.

TraceBot-Line follower robot
Koneru Lakshmaiah Deemed to be University
· An Arduino-based line follower robot autonomously navigates predefined paths, demonstrating precise automated navigation through the utilization of infrared sensors. The robot efficiently detects and responds to diverse line configurations, showcasing its ability to maintain accurate tracking throughout its course.

Arduino Home Fire Alarm System with Temperature and Smoke Detection
Koneru Lakshmaiah Deemed to be University
· Implemented Arduino-based home fire alarm system with temperature and smoke detection sensors, ensuring rapid and accurate response to potential fire situations.

SKILLS

Technical Skills: Electronic Circuit Design, Digital Electronics, Microprocessor/Microcontroller Programming (e.g., Arduino, Raspberry Pi)

Programming Languages: C, Java, HTML/CSS, Verilog/VHDL (for FPGA programming), Python, Basics of JavaScript

Software Tools: MATLAB, Simulink, Multisim, Cadence (for VLSI design), Xiliance Vivado, LTSpice

Communication Skills: Technical Report Writing, Documentation, Presentation Skills

Teamwork and Collaboration: Project Management, Team Collaboration, Problem-solving in a Team Setting

Adaptability: Quick Learner, Ability to Adapt to New Technologies, Flexibility in Different Environments

Analytical Skills: Problem Analysis and Resolution, Critical Thinking, Troubleshooting

Soft Skills: Time Management, Attention to Detail, Initiative and Proactivity, Creativity in Problem Solving