Doki Harikrishna

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Objective

To contribute to an organization that values continuous learning and personal growth, providing opportunities to enhance my skills and knowledge while supporting the company's mission and objectives.

Education

BTech –Aditya Institute of Technology and Management, CGPA – 8.80	2021 – 2025
Intermediate – Sri Basara Junior College, Percentage – 93.9	2019 –2021
SSC – Ravindra Bharathi School, CGPA – 9.8	2018 –2019

Project

Secure and selective geographic opportunity routing against DoS attacks in Wireless Sensor Networks
Tools: TCL (Tool Command Language), Ns2

- Suggested Secure and Selective Authentication-based Geographic Opportunistic Routing (SSGOR) protocol for improving data security and reliability in IoT-based Wireless Sensor Networks (WSNs).
- Designed an SSI-based trust model and entropy-driven selective authentication algorithm to counter DoS attacks and maintain data integrity.
- Developed a distributed cooperative verification model to segregate attackers, cancel out redundant verifications, and avoid duplicate transmission.
- Lost 50% computational cost compared to current solutions while ensuring reliable and original data transfer, tested through extensive simulation.

Technical Skills

Programming: C, Python, C++
Core: Basics of Assembly Language, MATLAB, Verilog HDL
Development: Basics of HTML, CSS
Database: SQL
Operating System: Windows

Soft Skills

Communication skills, Teamwork, Time management

Internship

Introduction to CNC systems using PLC and Step5 programming	04/2024 – 05/2024

Organization: Bharat Heavy Electricals Limited (BHEL), Visakhapatnam
Description: Throughout my internship, I had first-hand experience of CNC systems that translated digital drawings into accurate machine motion for automatic manufacturing. I handled PLC integration and Step5 programming to deliver accurate operations. This experience built my technical capability and knowledge in hardware-software coordination in contemporary manufacturing.

Certifications

- Embedded System Developer Virtual Internship by Edu skills, AICTE
- VLSI for beginners by NIELIT
- Productivity Enhancements and computational tools by APSSDC
- PCB Designing by APSSDC
- Amazon Web Services - Cloud Computing by APSSDC
- Introduction to Internet of Things by NPTEL
- Introduction to Industrial 4.0 and Industrial Internet of Things by NPTEL

Co Curriculars

- Participated in Circuit Building competition conducted by Aditya Institute of Technology and Management.
- Presented an idea in **Smart India Hackathon (SIH)** on **Prohibition of hazardous cleaning of sewers using hazardous gas detecting device.**
- Presented an idea in **MSME** (Micro, Small and Medium Enterprises) on Train collision prevention - **The Karna System for Collision Prevention.**

Hobbies

- Watching Documentaries