Gitartha Gogoi

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Education

Sikkim Manipal Institute of Technology, Sikkim, India
M.Tech in Digital Communication and Signal Processes   CGPA: 9.1
2024 – pursuing

Assam University, Silchar, Assam, India
B.Tech in Electronics and Communication   CGPA: 7.6
2020-2024

Kendriya Vidyalaya, Duliajan, Assam
XII (CBSE)   81.2%
2020

Kendriya Vidyalaya, Duliajan, Assam
X (CBSE)   84.6%
2018

Experience

Eminence Robotics, Guwahati, India(Hybrid)
Team Lead - Academy Team

- Led a robotics team to multiple wins, honing skills in mechanical design, embedded programming, sensor integration, IoT, leadership, project management, and problem-solving.
- Technologies used: Arduino, ESP32, ESP8266, C, C++, BLE, WIFI, LoRa, and IOT protocols.

MeOWL Technologies Pvt Ltd, Ahmedabad, India(On-site)
Iot System Intern

- Designed and developed IoT systems with ESP32, NodeMCU, Raspberry Pi CM4, GSM, and LoRa modules for real-time data processing, enhancing skills in circuit optimization, fault diagnosis, camera module performance, and real-time alert system integration.
- Technologies used: Arduino, ESP32, ESP8266, Raspberry Pi, C, C++, Python, BLE, WIFI, I2C, and SPI.

Projects

Enhancing MU-MISO Wireless Systems Using Active Intelligent Reflecting Surfaces

- Modeled and evaluated Active IRS performance in MU-MISO wireless networks, analyzing phase shifts under weak LoS conditions and assessing key metrics to highlight its advantages for next-gen wireless systems.

Network Independent Smart Energy Meter with Real-Time Monitoring and Anti-Theft Features

- Designed and developed an IoT-based Smart Energy Meter with ESP32 for real-time monitoring, remote control, and cloud data sharing. Added network-independent operation, automated alerts, and anti-theft mechanisms for enhanced reliability and energy optimization.

Skills

Technical: ESP8266, ESP32, NodeMCU, RaspberryPi, Arduino, LoRa, GSM and IOT Protocals.
Languages: C, C++, Python, Verilog, VHDL.
Soft Skills: Communication, Problem-solving, Project management, Teamwork, Active listening

Certifications & Publications

- VLSI Testing—NPTEL
- Google Cybersecurity Specialization
- Published a conference paper titled "Performance Analysis of Active IRS-aided MU-MISO System", proceedings of the 3rd International Conference for Microwave, Antenna, and Communication, 2025, at MANIT, Bhopal.
- Published a conference paper titled "Developing a Network-Independent Accurate Smart Energy Meter with Real-Time Data Sharing for Active Monitoring and Management of Consumption", proceedings of ICIMSTAS, 2023 at USTM, Meghalaya.

Extracurricular / Position of Responsibility

- National Volleyball Player U16 (2016)