



Suryadev Singh

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M.Tech

Electronics & Communication Engineering

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GitHub Profile

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EDUCATION

•Indian Institute of Information Technology, Guwahati

M.Tech & ECE

2025

CGPA 2nd Sem: 7.63

•Babu Banarasi Das Institute of Technology and Management

B.Tech at Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh & EEE

2022

CGPA: 7.15

EXPERIENCE

•IIIT Naya Raipur

Research Intern

May 2024 - July 2024

Raipur

- **Journal: FPGA-based System-on-Chip Solutions for Real-time Sensor Data Management in IoT Applications** using Internet of Things (IoT), Low power, System-on-Chip (SoC), Field Programmable Gate Arrays (FPGA), serial-to-parallel, Universal Verification Methodology (UVM). The findings demonstrate the proposed scheme's where we are connecting multiple sensors while utilizing same LUTs for effectiveness and resource efficiency.
- **Conference Paper: Leveraging FPGA-based System-on-Chip for Real-time Sensor Data Hosting in IoT:** The implemented module was analyzed with the assistance of sensors to check the effectiveness of the proponent's methodology. Likewise, the FPGA design held 1.90% LUTs with processor segment including only 1.40% SoC.

•INSYST LABS

Software Developer Intern

Oct 2022 - Aug 2023

Lucknow

- Developed an **Application for ANPR System**: custom convolutional neural network (CNN) model for image recognition, optimizing accuracy, leading to enhanced AI/ML capabilities on **NVIDIA Jetson Nano board**.
- Commissioned by COCO IOCL to measure the entry and exit time of vehicles by capturing their number plates.

•Grand Thorton sanctioned by SAMSUNG

Consultant at JNV Kangra

Dec 2022 - Jan 2023

Kangra

- Trained the staff on using new smart classrooms and educated students about digital footprints covering- Privacy and Security, Social Media Behavior, Online Tracking and Data Collection, Cyberbullying and Online Etiquette, Digital Literacy and Critical Thinking

PERSONAL PROJECT

•IOT Based Health Care Monitoring System

Tools & technologies used: Linux, C, Python, HTML, CSS, Aurdino, MySQL

Oct 2022 - July 2023

- Integrated sensors with Arduino to collect data and, transmit it via IoT in Adafruit, and developed an HTML/CSS website to provide real-time results for doctors, helping in diagnosis and patient care.
- Contributed to all the hardware setup and making of the website.

TECHNICAL SKILLS

Languages: Python, Verilog, C, Java, HTML, CSS, React, System Verilog

Developer Tools: Gitlab, HTML5Builder, Docker, Vivado, Matlab

Frameworks: PyTorch, TensorFlow, OpenCV

Cloud/Databases: MySQL, Google Cloud

POSITIONS OF RESPONSIBILITY

–Placement cell coordinator IIIT Guwahati

June 2024 - Present

–Head organizer for the IC3A2020 IEEE conference AKTU University

Feb 2020

ACHIEVEMENTS

***Won 3rd prize** Quiz competition organized by BBDNITM STB10214

Feb, 2020

***Won Best Speaker Award**La Martiniere Model United Nations Lucknow

Oct 2016

CERTIFICATIONS

*Google Cybersecurity Specialization

*Cadence Certification on Design for Test Fundamental