



SAMIDDHO CHATTERJEE

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Kolkata, West Bengal - 743127, India

EXPERIENCE

- **KPIT**  January 2025-present
Pune, India
C and Embedded Systems trainee intern
 - Worked on STM32-based automotive systems using GPIO, UART, timers, CAN Protocol
 - Hands-on with STM32CubeIDE and HAL drivers.
 - Use of AUTOSAR for the automotive domain.
- **Maven Silicon**  August 2023 - October 2023
Remote
Certification project internship
 - Developed a AHB to APB bridge design
 - Implemented the bridge using various tools like Modelsim and Quartus Prime, using Verilog programming

EDUCATION

- **Vellore Institute of Technology** 2021 - 2025
Chennai, India
Bachelors of Technology in Electronics and Communication
 - GPA: 8.26/10.00
- **Calcutta Boys' School** 2020-2021
Kolkata, India
ISC Board-Higher Secondary education
 - Percentage Marks: 90.5/100

PROJECTS

- **Project: Li-Fi Technology** April 2023-July 2023
Tools: Hardware model
 - Designed and implemented a data transmission system using light as a medium for faster and more efficient data transfer, integrating encoding and decoding techniques to enable transmission. Evaluated audio streaming quality, observing that the distance between the decoder's solar panel and the light source impacts data quality, and collaborated with my peers to successfully complete this mini project.
- **Project: A deep Learning approach for detection of Earthquake Triggered Landslides** December 2024- April 2025
Tools: Python, Machine Learning
 - Used for real-time landslide detection and mapping using Synthetic Aperture Radar (SAR) data.
 - Compared the dice loss and accuracy of two of the most widely used image segmentation models – UNET and DeepLabV3+

SKILLS

- **Programming Languages:** C, Embedded C, Verilog, MATLAB, Python
- **Softwares used:** MATLAB, Simulink, STM32CubeIDE, LT Spice, Cadence, ModelSim, QuartusPrime, Ansys HFSS, Kaggle IDE

LEADERSHIP EXPERIENCE

- **Lead, Marketing Department** September 2023-April 2024
Bengali Literary Association/VIT Chennai
 - Spearheaded the marketing team at the Bengali Literary Association, VIT Chennai campus, and took the club to new greater heights.
 - Successfully marketed an event for which we got a turnover of over a lakh

CERTIFICATIONS

- **Understanding Data Structures and Algorithms in C and C++ by Abdul Bari (Udemy)** March 2025
- **Embedded Systems Bare-Metal Programming Ground Up (STM32) (Udemy)** March 2025
- **Maven Silicon VLSI Design internship** November 2023