Minhal Naqvi

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Experience

Vimanic Systems   January 2025 – May 2025
Digital Design Intern

- Developed ARINC 429 IP core in Verilog for avionics data communication between transmitter and receiver, integrating SPI interface and validating via simulation.

- Implemented embedded C routines on Xilinx Vitis platform for protocol interfacing and data logging.

- Collaborated with senior engineers, participated in design reviews, and contributed to documentation and testbench development.

Projects

Crypto Price Alert Bot (Python, CoinGecko API, Telegram Bot API)

- Built a Telegram bot using Python that tracks live cryptocurrency prices via the CoinGecko API and sends real-time alerts to users when target price thresholds are reached.

- Gained hands-on experience integrating third-party APIs, working with chat interfaces, and managing asynchronous processes.

Full-Stack IoT Sensor Dashboard(Embedded C, javascript, html, css)

- Built temperature and humidity sensor module using a WIFI module(ESP8266) Arduino board and temperature sensor.

- Used html,css and javascript for the front end and Embedded C for the back end

Education

PES University, B.Tech-Electronics and communications engineering   September 2021 - June 2025

Skills

Languages: C++, Java, C, Python, SQL, Verilog, SystemVerilog, Javascript Embedded C

Technologies/Tools: Node.js, React, Vitis, Arduino Vivado, ESP8266, Git, Powershell, Azure, Matlab, Simulink, Cadence, QUCS

Domains: Software dev, Digital Design, Embedded Systems, IoT, Avionics Protocols, AI/ML, FPGA

Concepts: Data Structures, Algorithms, Signal Processing, FPGA architecture, Timing Analysis, Testbenches, Synchronous and Asynchronous Design Techniques, Control Systems

Other information

Member of codeforces with rating of 1071(currently) with 171 problems solved.

Link to codeforces: https://codeforces.com/profile/blonded_radio

Git Hub: https://github.com/minhal0515/Application