RIFAH SANJIDA

LinkedIn GitHub Upwork
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SUMMARY

As a Level 3 Electronics and Telecommunication Engineering student at CUET, I have a strong foundation in communication systems, signal processing, microprocessors,VLSI Design and control systems. Proficient in C/C++, MATLAB, and circuit design tools, I excel in time management, following directions effectively, and providing leadership when needed. With strong analytical and problem-solving skills, I am eager to apply my knowledge in challenging engineering environments.

ACADEMIC CREDENTIALS

B.Sc in Electronics and Telecommunication Engineering *2021 – Present*
Chittagong University of Engineering and Technology GPA: out of 4.00

Higher Secondary School Certificate (HSC) *2021*
Chittagong Govt. Woman's College GPA:5.00 out of 5.00

RESEARCH INTEREST

AI/ML for Wireless Communication and Signal Processing
Cyber-Physical Systems (CPS)
Low-Power IoT Devices Edge Computing

SOFTWARE PROFICIENCY

Programming Language: C/C++, MATLAB
Circuit Design: Proteus, Livewire
Basic Software: MS Word, Powerpoint, Excel

PROJECTS

1.Digital Stopwatch Using 4026 IC
Designed and built a digital stopwatch using CD4026 ICs and a 555 Timer IC, integrating a 7-segment display for timekeeping. The project included components such as self-lock switches, push buttons, diodes, resistors, capacitors, and jumper wires on a breadboard. Developed skills in digital logic design, circuit assembly, and troubleshooting.

2.Tesla Model S P85 Vehicle Dynamics Modeling and PID Controller Design
Developed a MATLAB-Simulink model for the Tesla Model S P85, integrating vehicle dynamics, powertrain, aerodynamics, and rolling resistance. Designed and optimized a PID controller for precise speed regulation at 65 km/h, enhancing control responsiveness and performance.

EXTRA-CURRICULAR ACTIVITIES

CUET Photographic Society, CUET -Asst. Program Coordinator
IEEE Students Branch, CUET -Executive Member