Allah Nawaz Khan

Electrical Engineer

Final year Electrical Engineering student with a strong foundation in communication systems, currently pursuing a final year project on tunable frequency selective surfaces for filter and electromagnetic interference shielding. Experienced in key areas including power electronics and renewable energy. Skilled in industry-relevant tools such as HFSS, MATLAB, AutoCAD, and PSpice. Comfortable with programming in C/C++ and hardware design using Verilog. Known for a practical, problem-solving mindset and a hands-on approach to engineering challenges.

Short and engaging pitch about yourself.

✉ nawaz2021@namal.edu.pk   📱 0307-4250169   📍 Mianwali, Pakistan

EDUCATION

Bs Program
Namal University Mianwali

07/2021 - Present   *Mianwali*

Courses

- Communication Systems
- Digital Logic Design
- Digital Image Processing
- Technical Writing & Communication
- Control Systems
- Power Electronics
- Internet of Things
- Renewable energy Sources

Fsc Pre Engineering
Superior Group of Colleges Mianwali

05/2019 - 07/2021   *3.01*

WORK EXPERIENCE

Event Organizing Team Member
Namal University Mianwali

Achievements/Tasks

- Got experience in arranging and participating in Namal Robo Tech 2024 and held at Namal University, Mianwali

SKILLS

HFSS   C/C++   Matlab   Verilog

Proteus and PSpice   Autocad   Problem Solving

PERSONAL PROJECTS

FYP: Tunable FSS for filter and EMI shielding applications
- Designed and simulated a tunable Frequency Selective Surface (FSS) using HFSS, targeting the 10 GHz band. Achieved dual functionality for frequency filtering and EMI shielding on a Rogers-5880 substrate.

Converter Design
- Designed and simulated a high-power, low-voltage DC-DC converter using MATLAB/Simulink with Si-MOSFET and GaN-HEMT technologies.

Design and implementation of 4-bit ALU
- Developed a 4-bit ALU capable of performing arithmetic and logic operations. Implemented the ALU functionality in Verilog HDL and verified through simulation waveforms.

Line Following Robot Control
- Assembled and programmed a LEGO EV3 robot to achieve straight-line movement using MATLAB/Simulink.

Library Catalog Management System
- Developed a GUI-based library management system in Python enabling book addition, removal, and modification.

CERTIFICATES

Certificate of appreciation for arranging & participation in Namal Robo Tech (2024)

LANGUAGES

English
Full Professional Proficiency

Urdu
Native or Bilingual Proficiency