

Curriculum Vitae

MARIA REHMAN D/O **FAZAL UR REHMAN KHAN**

Mobile no: 03414188305

Email: maria2019@namal.edu.pk

Nationality: Pakistani

Gender: Female

Address: Mohallah Pahar Khel, Post Office
Khas, Pakka Shahbaz Khel, Tehsil and District
Mianwali.

LinkedIn Profile:

<https://www.linkedin.com/in/maria-rehman-b365b6227>

As an electrical engineering student, I am eager to start my career. I want to work in a challenging and dynamic environment, where I can utilize my technical knowledge and skills to tackle complex problems. My goal is to make a positive impact in the industry. I possess strong interpersonal skills and have the ability to work effectively in a team. I am confident that I can make a meaningful contribution to any organization I join. I am dedicated to personal and professional growth. I believe that a career in electrical engineering is the perfect path to achieve my goals.

Education:

Degrees	School/College/University	Year	CGPA/%age
BS Electrical Engineering (4 th Year Semester 8)	Namal University Mianwali.	2019-2023	3.13CGPA
FSc (Pre-Engineering)	Punjab Daanish School Harnoli Mianwali. (Lahore Board)	2018-2019	87.4%
Matriculation	Punjab Daanish School Harnoli Mianwali. (Lahore Board)	2016-2017	91.2%

Skills:

- Excellent written and verbal communication skills.
- Effective technical communication to non-technical stakeholders.
- Experienced in using Microsoft Word, Power point and Excel.
- Proficient in Python, C++, C and Verilog HDL.
- Experience with machine learning algorithms (e.g. KNN, Logistic Regression, RNN and CNN).
- Experience with PLC programming and control systems.
- Knowledge of electrical safety regulations and standards.

Soft Skills:

Visual Studio	AutoCAD	Verilog VHDL	Google Colab
MATLAB/Simulink	Arduino	ETAP	Linux
Pspice	OrCAD	LTspice	Microchip Studio
Proteus	Power eSim	Cisco Packet Tracer	Logisim
Spyder	Circuit Simulator	Model Sim	Code Blocks

Work Experiences:

Namal Institute Mianwali / NSSI, Skills Development Head

- Led and managed the soft skills development program for students at Namal Institute.
- Provided guidance and support to students to enhance their soft skills and maximize their potential
- Implemented new techniques and methods to keep students engaged and motivated in learning.

Namal Institute Mianwali / NSSI, Teacher

- Taught 9th and 10th grade mathematics and physics to students.
- Assisted students in resolving their queries and provided support in their academic pursuits.
- Contributed to the development of the curriculum and taught with creativity and passion.

Namal Institute Mianwali / Academia / Teacher Assistant (Computer Programming)

- Assisted the main teacher in the lab tasks and provided support to students in their computer programming courses.
- Mentored students and helped them in resolving their queries related to the subject matter.
- Collaborated with the teacher to develop and implement effective teaching strategies to maximize student engagement and learning.

Internship:

Allied Public School/ Academia / Teacher

- I was given the opportunity to expand my skill set by teaching Mathematics and Physics to 9th and 10th grade students.
- My responsibilities included creating lesson plans, conducting class sessions, grading assignments, and providing individual support to students

Projects:

1. **Noise removal from Audio Signal:** Developed and designed a filter system to effectively remove unwanted sound from audio signals.
2. **Design Buck Boost Converter:** Designed a buck and boost converter capable of running various equipment with varying voltage requirements.
3. **Traffic Signals:** Designed and implemented traffic light systems using integrated circuits and digital gates.
4. **ASK Module Design:** Designed an Amplitude Shift Keying (ASK) module using a combination of electronic components and integrated circuits.
5. **Network Design at Namal Institute:** Utilizing Packet Tracer, designed and implemented the entire network infrastructure for Namal Institute.
6. **Robot Design:** Built and programmed a line-following robot using Logo Mindstorms EVE3 technology.
7. **Maximizing Audio Classification Accuracy and F1 Scores with Praat and scikit-learn:** This project involved audio classification task. The goal is to maximize the accuracy and F1 scores of the classifiers through 5-fold cross-validation and evaluation of the results using various performance metrics.
8. **Design and Implementation of a 32-bit RISC-type Processor for Basic Arithmetic and Logic Operations:** Designed and implemented the required 32-bit RISC-type processor capable of performing basic arithmetic and logic operations using Verilog HDL. Designed components such as adders, multipliers, dividers, ALU, data path, and control unit.

Awards, Honors and Certification:

- CEATS Math's and Science certification.
- National Kangaroo Contest Math's and English certification.
- Appreciation letter from Head of Science Department for organizing inter house quiz competition on Science Day.
- National spelling bee competition certification.

Sports and Extracurricular Activities:

- First position in Tehsil level and second position in District Level in English Essay Writing in Youth Festival.
- Third position in Javelin Throw at District Level.
- Captain of College Foot Ball team and selection for Punjab Camp and Young Rising Star camp.
- Participation in National Women's Foot Ball championship 2018.
- Player of Table Tennis.
