



MUHAMMAD FAHEEM KHAN

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Date of Birth: 13/11/2000

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EDUCATION & QUALIFICATIONS

Bachelors in Electrical Engineering Namal Institute, Mianwali CGPA: 3.91/4	Sep 2017- Current
Intermediate in Pre-Engineering (F. Sc) Superior College Mianwali, Ali Town, Mianwali Marks: 936/1100	June 2017

PROFESSIONAL EXPERIENCE

Pakistan Atomic Energy Commission Final Year Project <ul style="list-style-type: none">Designed a mobile robot for tele-monitoring of the environment in collaboration with PAEC.	Sep 2020- Current
Namal Institute Mianwali Teacher Assistant, Mathematics Department <ul style="list-style-type: none">Helping the students and teacher throughout the course	Sep 2019- Current
Khoj School, Sheikhpura Teacher, Maths <ul style="list-style-type: none">Teaching the students via Skype	Feb 2019

PROJECTS

Tele-monitoring via Mobile Robot: The primary objective of final year project is real-time monitoring of the environment via a mobile robot. The robot will be capable of moving from one place to another through a web interface for a safe and agile remote control. A camera with 360-degree rotation is mounted on the top of the robot for real-time monitoring of the environment.

Handwritten Multi-digit recognition using Artificial Neural Network: Testing data of 200 images is created manually, each image with at max 5 digits. MNIST implementation is tested on the manually created dataset and the ANN model is trained with Histogram of Oriented Gradients' (HOG) features to recognize the multi-digits.

Implementation of CBR and ID3 Algorithms: CBR and ID3 are implemented on the zoo dataset from scratch. The performance of both algorithms is analyzed and compared.

Implementation of Search Engine: Implemented 5 different algorithms using various data structures like Queues, BSTs, AVLs, Hashing, and skip-lists to efficiently search in a given dataset of size 9 lacs.

Audio Amplifier: Variable gain audio amplifier is designed using discrete components in simulation and hardware.

Solar Tracker: A prototype is designed to locate the position of the sun and adjust the position of the solar panel accordingly.

Traffic Light Control: Designed and implemented a traffic light control system to prioritize the ambulance in any of the lanes using embedded systems.

Tic Tac Toe and Result Analytics: Unbeatable tic tac toe game and result analytics calculator for the students of a university is designed using C language.

ADDITIONAL EXPERIENCE

Head of Training Center, Center of Excellence and Skills Development, Namal <ul style="list-style-type: none">Organized and promoted various events conducted at the university.	2018 – 2020
Training Workshops, Aspire Training and Consulting Pakistan <ul style="list-style-type: none">Participated in different activities focusing on career and confidence building.	Sep 2020

HONORS & AWARDS

- Best 1st and 2nd year student in Namal Institute Mianwali(2018-2019).
- Merit-based scholarship at NIM in BSEE (2017)
- PEEF scholarship holder(2017-present)

SKILLS & INTERESTS

- Adroit in Microsoft Office, ORCAD, Proteus, Modelsim and Mathematica.
- Skilled in overleaf, assembly language, C, C++, Python, SQL
- Interests: Freelancing, Video editing, Entrepreneurship and Volleyball.