

Curriculum Vitae

Muhammad Arif Sultan (Electronics Engineer)

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EDUCATION

MS in AI and ML (2020)	PAF-KIET	CGPA 3.2
B.E. Electronics (2016)	PAF-KIET (PEC Recognized)	CGPA 3.59
Intermediate (2011)	Govt. Degree Boys College Gulzar-e-Hijri	2 nd Division
Matriculation (2009)	Elegant Educational Foundation	1 st Division

PROFESSIONAL EXPERIENCE

Innovative Solutions (AI Engineer) (Dec 2020 to date)	<ul style="list-style-type: none">* Design AI based algorithm "AlphaZero" for AI chess game play* MCTS based decision tree search algorithm using python* ResNets for Policy and value prediction* Training ResNets using Reinforcement learning and MCTS.
Lambda Theta (Design Engineer) (Aug 16 to Nov 2020)	<ul style="list-style-type: none">* Development of vision based object detection using camera.* Designing of vision based ANPR system.* Designing of vision based Volume Calculator.* Hardware designing for specific tasks.
Lambda Theta (Internship) (July to Aug 16)	<ul style="list-style-type: none">* Development of vision based object detection using camera (Task).* Logging and maintaining record of specific object.* Hardware designing to fulfill the requirements.* Development of software including GUI.
Remotile PLC (Project)	<ul style="list-style-type: none">* Remote Communication of computer With PLC via Modbus protocols.* Wireless Communication using TCP/IP protocols.* Online Transmission and Receiving Data for Monitoring and Controlling.* GUI Designing for PLC process simulation.

FINAL YEAR PROJECT

Automated Diagnosis of Parkinson Disease: Computer Aided diagnosis system of Parkinson disease by using SPECT (Single Photon Emission Computed Tomography) brain scans. A novel approach is proposed based on Matlab and achieved the highest diagnosis accuracy (95%) ever reported in the literature. Research paper write-up is in progress.

PERSONAL SKILLS

- Problem Solving
- Planner & Organizer
- Good Communication
- Team Player
- Smart Working
- Result Oriented

SOFTWARE EXPERTIES

- MS Office
- PLC Ladder Programming
- Programming (PIC & AVR)
- Proteus (Simulations + PCB)
- C & C++
- Matlab (Coding+ GUI+ Simulink)
- FPGA configuration (VHDL)

SPOKEN LANGUAGES

- Urdu
- English

EXTRACURRICULAR ACTIVITIES

- Active participant in engineering project exhibitions and sports competitions.
- Attending motivational seminars, and active member of youth intelligentsia.

ACHIEVEMENTS

- Got College Honor Badge in Fall-12 (scholarship)
- Got College Honor Badge in Spring-13 (scholarship)
- Got College Honor Badge in Spring-14 (scholarship)
- Got College Honor Badge in Fall-14 (scholarship)

PERSONAL INFORMATION

Father's Name	M. Mustafa Sultan
Date of Birth	10/09/1990
Nationality	Pakistani
Religion	Islam
CNIC	42501-9204640-7
Extra Qualification	Hafiz-e-Quran