

Mirza Muhammad Samiyan Baig

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Address

PIA Society, Gulistan-e-Johar

Karachi, Sindh

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Objective	Research-driven and highly organized electrical engineer with an interest in coding and artificially intelligent solutions for the world of electronics, bringing articulate communication abilities and a keen eye for detail. Dedicated, responsible, and eager to grow abilities while boosting operational success.		
Education	Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI) Bachelors of Science in Electrical Engineering(Electronics) CGPA: 3:42/4.00	Topi, PK September 2020 - Present (Expected graduation date: July 2024)	
	Bahria College Karsaz High School Degree Result: A	Karachi, Pakistan August 2017 - June 2019	
Work Experience	Team Foxtrot - HEAD Software Development & Embedded Systems <ul style="list-style-type: none">- Trained and implemented a model for object detection using YOLOv7 on microprocessor named NVidia Jetson Nano.- Instructed and experimented with ML/AI frameworks of python such as Scikit- Learn, TensorFlow and PyTorch.- Led the sub-team for Fabrication and persuaded about 2 projects.- Facilitated to the team's efforts in securing first place in Asia and sixth place overall at the IMechE UAS Challenge 2022.	Topi, Pakistan January 2021 - Present	
Google Developers Student Club (GDSC) - Core Team - Head Machine Learning <ul style="list-style-type: none">- Arranged with 6 members, 4 sessions for students on campus on introduction to Python programming and basic Machine Learning.- Completed an app for Alzheimer's patients using Flutter with 3 members and devised basic functionality using Deep Learning Algorithms.- Co-authored on a tool that conceptualized 4 image classifiers to auto-fill different aspects of a cloth in an app or website.			Topi, Pakistan October 2022 - April 2023
Integrated Dynamics (ID) - Engineering Intern <ul style="list-style-type: none">- Expedited an on-going project which focused on making a custom Ground Control Station (GCS) that compromised of 2 functions; monitoring and controlling the air vehicle.- Completed the assembly and testing of 3 drones with different flight controllers such as Pixhawk, and APM.- Created 3D coverings for different electronic parts of a UAV (Unmanned Aerial vehicle).			Karachi, Pakistan July 2022 - August 2022
Academic Projects	Li-Fi System (Light Fidelity System) <ul style="list-style-type: none">- Designed a system that coded and decoded the 26 alphabets into and from different light signals. Programmed using Python, and libraries such as OpenCV, Pandas, and NumPy. Function Generator <ul style="list-style-type: none">- Prepared a function generator using Op-Amps, that could generate 3 different waves such as Square, Triangular, and Sine with the capability of changing frequency and giving an off-set. 90 VA Step-down Transformer <ul style="list-style-type: none">- Analyzed and built a 90VA step-down transformer using silicon steel as core. POS (Point-of-Sale) System <ul style="list-style-type: none">- Developed a POS system using PIC microcontroller PIC18F4550 with Embedded C. Bluetooth Controlled Robotic Arm <ul style="list-style-type: none">- Proposed and fabricated a 3-DOF robotic arm using 3D printed parts. Programmed the functionality of the arm using Arduino UNO and NANO.		
Awards & Achievements	<ul style="list-style-type: none">- Business Proposition Award at IMechE UAS Challenge (August 2022).- Dean's Honor List of fourth semester (June 2022).- Business Proposition Award at IMechE UAS Challenge (August 2021).- Dean's Honor List of second semester (July 2021).- Introduction to Deep Learning with Keras - DataCamp Course (February 2023).		
Skills	<ul style="list-style-type: none">- Software Skills: LT-spice, Multisim, Proteus, PCB Design, Simulink, Excel, Simscape- Programming Skills: Python, Machine Learning, Deep Learning, Embedded C, C++, Arduino, Matlab.		