Mohammad Zainullah Khan

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Karachi, Pakistan

Education	Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI) <i>Top engineering institution ranked by Higher Education Commission (HEC) in Pakistan</i> Bachelors of Science in Mechanical Engineering	Pakistan 2014 – 2018
	CGPA: 3.89 / 4.00 (Top position in department out of a 100 students)	
	Nixor College	Pakistan
	GCE Advanced Level Grades: 4 A*'s, 1 A	2012 – 2014
Work	Operations Engineer, United Energy Pakistan Limited -formerly BP Pakistan	July 2018-Present
Experience	- Daily allocating oil, water and gas production to each reservoir in Badin, Digri, KN and MKK in line with their well tests and booking reservoir gain/loss according to their downtime/uptime during 24 hour cycle.	
	 Monitoring and reporting of oil inventory at each facility and managing bowser logistics efficiently to avoid feed curtailment. Generating Weekly Key well report- highlights major production changes and oppurtunities for improvement. 	
		nprovement.
	 Supply Services Intern, Reckitt Benckiser Optimized manufacturing lineup and embellishment process through automation. Led to savings of PKR 5 million (\$30,000)/year on three power brands: Harpic, Dettol & Veet. 	July-Sep, 2017
	Intern, Advance Electronics International	1
	- Gained a basic understanding of the workings of generators, pumps, and elevators.	June-July, 2015
	Teaching Assistant for Further Maths & Physics, Nixor College	2012-2014
	- Conducted classes for students requiring extra help. Also conducted one-to-one sessions daily.	
	- Taught independently in teacher's absence & assisted in grading exams and compiling workshee	ts.
Academic	Real Time Control of 1 Degree of Freedom (DOF) free-to-pitch Tailplane	
Projects	Capable of maintaining desired pitch angle in the presence of varying wind speeds. Robust system with low overshoots.	
	A Cost-Effective 3D Scanning Solution for University Labs (Final Year Project) A low-cost, portable scanner controlled using Raspberry Pi capable of high quality scans. Played a pivotal role in winning a grant of 100 million PKR (0.6 million USD) from the government.	
	Active Pressure Control of a Vessel By controlling solenoid valves connected to a higher pressure vessel and atmosphere, the system maintains pressure within the specified range.	
	Earthquake Forecasting System	
	By making use of strategically placed sensors and accounting for the difference in speeds of body v surface waves, the system is able to issue a warning in advance.	vaves and
Publication	M. Z. Khan, Y.Ali, H.Sultan, M.Hasan, B.Salar. "Future of Currency: A Comparison between Traditional, Digital Fiat and Cryptocurrency Exchange Mediums," International Journal of Blockchains and Cryptocurrencies By Inderscience Publisher.	
Award &	 - 1st position holder (Gold Medalist) out of a 100 students in Faculty of Mechanical Engineering (GIKI) - Awarded multiple merit based scholarships during undergraduate degree 	
Achievements	- Winner of Reckitt Benkiser's nation-wide competition: League of Game Changers (PKR 0.5 million awarded) Devised an innovative engineering solution to improve sanitation facilities in rural areas of the country. It has been successfully implemented in 70+ villages across the country in collaboration with Save the Children Fund.	
	 Event Coordinator, Design, Build and Fly Competition (DBFC) 2017 Technical Head, The American Institute of Aeronautics and Astronautics (AIAA)- GIKI Chapter On Dean's Honor Roll in all Semesters 	
Professional	 Member, American Society of Mechanical Engineers (ASME) 	
Memberships		
	- Member & Registered Engineer, Pakistan Engineering Council (PEC)	
Others	GRE: Q:167 V:157 A:4.0 TOEFL: 109	
Others	- MATLAB, Simulink, Engineering Equation Solver	
	- Microcontroller Interfacing: Raspberry Pi & Arduino. Programming Language: C++	
	- Solid Works, Creo Parametric, AutoCAD, ANSYS Workbench (Static Structural)	
	- Certified in Microsoft Excel. Proficient in MS Powerpoint and Word.	

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