

Hassan Bin Sultan

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Karachi, Sindh

Pakistan

Objective	Engineering graduate, with demonstrated history of leading and managing technical projects, who is eager to develop new skills to solve real world problems.	
Education	Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI)	Topi, PK
	Bachelors of Science in Mechanical Engineering CGPA: 3.41/4.00	2014-2018
Work Experience	Generation's School	Karachi, PK
	GCE Advanced Level	2012 – 2014
	Grades: 2A*'s; 1A;	
	Maintenance Intern, Mechanical department	Aug-Sep-2017
	<i>Pakistan Petroleum Limited, Gambat South, Sanghar.</i> <ul style="list-style-type: none">• Suggested improvements (killing dry weed near wells etc.) in company's Environmental, Health and Safety policies.• Performed boroscopy and overhauling of the Waukesha engine alongside team of experienced technicians.• Executed root cause failure analysis on the major failure of CAT CG-260-12 generator and developed the solutions.	
	Engineering Intern, Operations department	July-Aug 2017
	<i>Atlas Honda Limited, Karachi, Sindh.</i> <ul style="list-style-type: none">• Functioned as a team in diagnosing the vibrations in the industrial blowers so as to decrease it by 2.5 in/s.• Initiated the study of the vibrations datasheet using the Vibration monitoring suite software and 3D-modelled the alternate mounting mechanism to increase the equipment's life expectancy by 5 years.	
	Research Intern, Supervision of Dr Muhammad Asif, PhD	May-June-2016
	<i>Ghulam Ishaq Khan Institute, KPK.</i> <ul style="list-style-type: none">• Project: Research on the gasifiers for the flue gas generation using 3rd grade coal (Asphen +, Ansys and CAD).• Searched and gathered the data from the research papers and replicated the analysis results with 65% accuracy	
	Design and Manufacture of Powertrain for Gasoline powered vehicle to maximize fuel efficiency <ul style="list-style-type: none">• Calculated the parameters for Power Transmission system and organized the fittings for the Pneumatic System.• Programmed the Electronic Fuel Injection on CD-70 engine and raised the efficiency by 70% to 80%.• Presented and tested the project on the grounds of Singapore (Shell Eco Marathon Asia Competition).	
Final Year Project		
Academic Projects	Design Of Propeller	
	Examined the design using ANSYS fluid flow analysis and 3D printed the propeller.	
	Stabilization Of The Aircraft Prototype	
	Stabilized the wings during air turbulence by implementing PID control system using MATLAB.	
	Small Scale Elevator System	
	Implemented the elevator LOGIC using PROTEUS and drafted the computational model	
	Fork Lift Mechanism	
	Performed the stress analysis on the individual components.	
	Autonomous Vehicle Design (achieved 4th position)	
	Designed and fabricated an autonomous robot for safe and rescue mission for NERC 2016 .	
Leadership & Rewards	Shell Eco Marathon Asia (achieved 6th position)	
	Simulated the shell of the vehicle using ANSYS to check its feasibility, for SEMA 2017	
	- Team Captain: Team Technobolt, Robotics team of GIKI	
	- Technical Head: Team Urban, Participated in Shell Eco-Marathon Asia 2018.	
	- Director of Media and Publication-ASME: Raised the social media outreach by 20% .	
Skills	-Final Year Project, Group Leader, Achieved 1st Position	
	-Distinction in Euclid Mathematics Contest	
	-Dean's Honour Roll List For The First And The Second Semester	
	-Completed Course on Occupational Health and safety.	
	-Technical Softwares: Ansys, PTC Creo, Proteus, SolidWorks, EES, Express PCB.	
	-Graphic Softwares: Photoshop, 3Ds max, Keyshot and MS Office suite (Word, PowerPoint, Excel, Project).	
	-Microcontroller Interfacing: Arduino and CNC (Computer Numerical Control) Programming.	

