Khaled Ahmed Farouk Abd El-Moniem Mohamed

Sas ANkhel Village - Zone 1 - Villa 29 - Khalifa A, Abu Dhabi, UAE
Mob : +971501239668
e-mail : khaledfarouk71@gmail.com, kfarouk@adnoc.ae

Summary

In addition to my 23 years of technical experience in major well known companies, I have a Ph.D in industrial engineering, specifically in Optimal Reliability & Maintainability Allocation. I believe that I continuously have to update my theoretical knowledge to embrace my technical job with the latest and most up do date techniques. I hope that this unique combination between actual technical experience and extremely strong theoretical knowledge makes me a valuable asset to any organization. On the personal level, I'm a very cooperative person who is always willing to learn more and improve my knowledge.

Education

2015	Ph.D. in Industrial Engineering "Optimal Reliability & Maintainability Allocation for Industrial Systems" Alexandria University Faculty of Engineer, Alexandria, Egypt.
2003	Master Degree in Engineering Management Arab Academy for Science and Technology, Alexandria, Egypt.
1994	B.Sc. Degree in Mechanical Engineer Alexandria University Faculty of Engineer, Alexandria, Egypt.

Papers

2014	Farouk, K., Younes, M., and Fors, M. "Optimum Reliability and Maintainability Allocations for Load-Sharing Continuous Flow System with Buffers". In Proceedings of the 2014 Industrial and Systems Engineering Research Conference, Montre´al, Canada, 2014.
2015	Farouk, K., Younes, M., and Fors, M. "Optimum Allocations for Reliability and Maintainability for Series System with Buffers under Imperfect Repair". 2015 International Conference on Industrial Engineering and Operations Management Dubai, United Arab Emirates (UAE), March 3-5, 2015.
2015	Farouk, K., Younes, M., and Fors, M. "An Artificial Neural Network Meta Model For Availability Of Systems In Series With Buffers Under Imperfect Repair". 2015 International Conference on Industrial Engineering and Operations Management Dubai, United Arab Emirates (UAE), March 3-5, 2015.

Awards

2014 ISERC Best Track Paper in Quality and Reliability Engineering

Career History

2009 - present UAE	ADNOC ONSHORE Maintenance & Reliability Specialist
	Responsibility summary: • Maintenance & Reliability subject matter expert for all ADNOC Onshore Assets (12 sites) • Develop standards & strategies. • Audit maintenance, reliability and operation excellence program. • Study systems reliability and plant availability. • Optimize maintenance program to maximize system availability and integrity. • Lead Root Cause Failure Analysis (RCFA). • Define critical spares.

	Achievements: • Develop and implement Fuzzy Semi-Quantitative Risk based Maintenance Criticality Assessment. • Develop Maintenance Management KPIs to improve maintenance performance and change cultures and behaviors of performing maintenance activities as part of maintenance excellency program which leads to 20% reduction in unplanned maintenance. • Develop and implement more than 20 RCM studies for different systems. • Develop and implement a quantitative worth-doing analysis and cost saving for RCM study. • Co-develop corporate maintenance manual. • Develop RAM simulation program to predict the Gas Compressor performance. • Develop RCFA procedure. • Develop Deferral Risk Assessment guidelines. • Develop Automated MTBF calculations based on the history in CMMS • Optimize maintenance for Chemical Injection skid to Maximize System Integrity • Define business rule for PM life cycle in CMMS • Co-develop ADNOC integrity manual. • Co-develop Critical Safety System KPIs
2003 - 2009 Egypt	EPROM Reliability Sectional Head (MIDOR refinery)
	Responsibility: • Optimize maintenance program to maximize plant availability & Integrity at optimal cost. • Solving equipment chronic problems by implementing Root Cause Analysis on these items. • Training engineers on the concept of reliability, RCM, and RCA.
	Achievements: • Developed Maintenance Criticality Assessment on the whole refinery systems. • RAM (Reliability, Availability, Maintainability study) on Steam generation system due to which I recommended changing the maintenance strategy that resulted a saving of 1,000,000$ per annum. • RCA (Root Cause Analysis) on Reciprocating Gas compressor whose eliminated biweekly chronic failure. • A complete RCM (Reliability Centered Maintenance) on Recycle Gas Compressor in Hydro-cracker unit that resulted a comprehensive predictive and proactive maintenance to minimize failure and increase the unit availability
1999 - 2003 Egypt & KSA	TECHNIP, Inc. Project Engineer (MIDOR Refinery, Egypt & Harad Gas Plant, KSA)
	Responsibilities: • Carried out quality control inspection activities in compliance with procedure, specification and construction drawings. • Verified the readiness for inspection. • Witnessed qualification test and determining their validity in accordance with construction specifications and procedure. • Prepared master plan for piping test packages. • Prepared final Equipment Mechanical Completion dossier for Pre-Commissioning • Validate subcontract costs
	Achievements: • Developed system to verify welding reliability (success rate). • Developed system for commissioning piping packages. • Developed system to verify and commissioning equipment mechanical completion.

1994 -1999 Egypt	✶ MANTRAC, Egypt,	Application Engineer (Petroleum Projects).
	✶ AC/BB, Egypt,	Design Engineer (Bibliotheca Alexandrina Project).
	✶ ACH, Egypt,	Electro-Mechanical Engineer.
	✶ RAKTA, Egypt,	Maintenance Engineer.
1994 -1999 Egypt	AC/BB. Project Engineer (Bibliotheca Alexandrina Project))	

Skills.

Predictive Analysis	Matlab, R, Python
Programming	C, Objective-C, PHP, Mysql
Machine Learning	Neural Network, Genetic Algorithm

Personal Info.

• Military status	: Exempted.
• Nationality	: Egyptian.
• Marital Status	: Married.
• Date of Birth	: 07-November-1971.
• Sports	:VolleyBall, Squash, Running,Swimming

References: Available upon request.