

Rayan H. Hafiz

Objective **To become a Decision Support Systems (DSS) specialist with the aim of improving the practices and utilization of asset management, online data reconciliation, process optimization, and performance monitoring applications at Oil & Gas producing and refining domain.**

Work Experience

- June 2001 – Present:** Saudi Arabian Oil Company (Saudi Aramco), Dhahran, Saudi Arabia.
- Jul, 2004 – Present* **Engineer at Decision Support Systems Unit, Process & Control Systems Department of Engineering Services.**
- Working on Reliability Analysis and Asset Performance Management (APM) applications and Data Reconciliation Systems (DRS). Currently, at the second phase (out of four) of Saudi Aramco's Decision Support Systems specialty program.
 - Core member of Data Reconciliation technology implementation team. Played major role on DRS evaluation and selection for the company (using Kepner-Tregoe method). Participated on the DRS piloting at Riyadh Refinery and participating on all following DRS projects.
 - Core member and vice chairman of APM team. Playing major part on the APM evaluation process and development of the company recommended vendor list of APM solutions.
- Jun, 2001 – Jun, 2004* **Industrial Computer Engineer at Computer Applications & Systems Technologies Division of Oil Supply Planning and Scheduling Department**
- Worked on Operation Applications group as Plant Information (from [OSIsoft](#)) system administrator and operations applications developer.
 - Developed and implemented new PI web based Tank Monitoring Application (TMA) to serve company operations monitoring inventories and products movement crosswise the country and terminals which resulted on cost avoidance of 1MM \$US .
 - Re-designed and developed LinePack Application to calculate packing rates and survival times of sales gas system of the company.
- Feb, 2001 – May, 2001* **Trainee Engineer at Zamil Plastics Industries, Dammam, Saudi Arabia.**
- Worked on both MIS and Industrial Engineering Departments on initial phase of work processes study to implement Oracle ERP Applications at four plastic plants.
- Summer 2000* **Summer trainee at Saudi Aramco's Dhahran Utilities Department, Asset Control group, Dhahran, Saudi Arabia.**
- Worked on processing and managing maintenance work orders of company's residential camp.

Education	<p>Sep. 2005 – May. 2006</p> <p>Jan. 2002 – May. 2002</p> <p>Sep. 1996 – Jan. 2001</p>	<p>King Fahd University of Petroleum & Minerals (KFUPM), College of Environmental Design, Construction Engineering & Management Department, Dhahran, Saudi Arabia.</p> <ul style="list-style-type: none"> ▪ Completed three graduate courses under Master of Engineering program in Construction Engineering & Management as part time student attending on personal interest (abandoned the program due to scholarship award from employer) <p>KFUPM, College of Computer Sciences & Engineering, Systems Engineering Department, Dhahran, Saudi Arabia.</p> <ul style="list-style-type: none"> ▪ Completed one graduate course “Real-Time Computer Systems” under Master of Science program in Systems Engineering as part time student. Researched and delivered course term presentation titled “Real-Time Web-Based Control” (abandoned the program due to high work load). <p>KFUPM, College of Computer Sciences & Engineering, Systems Engineering Department, Dhahran, Saudi Arabia.</p> <ul style="list-style-type: none"> ▪ B.Sc. in Systems Engineering (Industrial Engineering & Operations Research Option). ▪ Graduated one semester earlier than the class with honor award and GPA 3.134 out of 4.0 (top 10% of class). ▪ Math & Statistics courses GPA 3.61 out of 4. ▪ Did projects in simulation, quality control, decision making, and facility layout and location. ▪ Researched a report on "Supply Chain Management: Tools and Applications" as the term paper for English Technical Report Writing course. ▪ Did a senior project on Human Factors Engineering domain titled "<i>Comparison of Different Cycling Postures</i>" that included an experiment and statistical analysis of the collected data.
Presentations	<p>Nov, 2005</p> <p>Jun, 2005</p> <p>May, 2005</p> <p>Apr, 2004</p> <p>May, 2004</p>	<p>List of major presentations:</p> <ul style="list-style-type: none"> ▪ “Data Reconciliation: Riyadh Refinery Pilot Project”, Saudi Aramco Process Automation Technical Exchange Meeting (PATEM) 2005, Dhahran, Saudi Arabia. ▪ “GE Data Historian & Clients’ Evaluation”, Process Information Community of Practices (PI-CoP) Annual meeting, Dhahran, Saudi Arabia. ▪ “Migrating Operations Applications to PI: How Much Do You Gain?”, OSIsoft Users Conference 2005, Frankfurt, Germany. ▪ “TMA at Saudi Aramco”, accepted presentation at OSIsoft Users Conference 2004 at San Francisco, USA. (not delivered due to visa delays) ▪ “TMA at Saudi Aramco”, Systems Engineering Department Seminars, Collage of Computer Science &

- Engineering, KFUPM.
- Oct, 2003 ▪ **“Tank Monitoring Application”**, Saudi Aramco PATEM 2003, Dhahran, Saudi Arabia.
 - Sep, 2002 ▪ **“New Developed Applications with PI-ACE & PI-MDB”** Saudi Aramco PATEM 2002, Dhahran, Saudi Arabia.

Technical Writing

List of Technical Writings:

- Jan, 2007 ▪ **“APM Solution: How Much Does It Reduce Our Bills?”**, accepted for publication at Saudi Aramco's Process & Control Systems Department (P&CSD) Newsletter, 2007 Winter Issue.
- Jul, 2006 ▪ **“Refinery Performance Improvement: Tools for Competitive Solutions”**, published at Saudi Aramco's P&CSD Newsletter, 2006 Summer Issue.
- Jul, 2004 ▪ **“New Tank Monitoring Application at OSPAS”**, published at Saudi Aramco's P&CSD Newsletter, 2004 Summer Issue.
- Nov, 2003 ▪ Saudi Aramco: **TMA** User & Administrator Manuals.
- Nov, 2002 ▪ Saudi Aramco: **LinePack** System Documentation.

Training

Delivered training:

- May, 2006 & Jun, 2005 ▪ Established and delivered training course on Plant Information Advanced Computing Engine (PI-ACE) – product of OSIsoft Inc.- at Saudi Aramco's Professional Engineering Development Department (PEDD), Dammam, Saudi Arabia.
- Mar, 2005 ▪ Taught training course of Plant Information client applications (PI-ProcessBook and PI-DataLink of OSIsoft Inc.) at PEDD, Dammam, Saudi Arabia.
- Jun, 2004 ▪ Delivered Short training session on PI-ACE to Process Information Community of Practices (PI-CoP) Annual meeting, Dhahran, Saudi Arabia.

Selected attended training:

- 2006 ▪ **Meridium** (Asset Performance Suite) Training, Dubai, UAE.
- **VALI** (Date Reconciliation System) Training, Dhahran, SA.
- Saudi Aramco: Retaining Equipments.
- Overview of Project Management & Leading the Successful Project Team (online course).
- Stephen Covey: The 8th Habit (live broadcasting from US).
- 2005 ▪ Introductory & Intermediate **OPC** Training.
- Trainer Certification Program: parts I & II, Dhahran, SA.
- PI Advanced Computing Engine, Montreal, Canada.
- PI Data Access Pack, Montreal, Canada.
- 2004 ▪ Saudi Aramco: Analyzing & Solving Problems short course.
- Programming with MS VB.NET
- 2151 W2K Networking & Operating Essentials.
- 2003 ▪ PI System Admin. 2 - Advance Topic, Manamah, Bahrain

- Stephen Covey: Seven Habits of Highly Effective People.
- Saudi Aramco: Business Communication Workshop.
- 2002**
 - Saudi Aramco: Business Ethics & Corporate Values and Interpersonal Communication course.
- 2001**
 - ISO 9001: 2000 Process Mapping & Analysis Workshop.
 - Programming with MS Visual Basic 6.
 - PI System Management & PI Client Applications courses.
- 2000**
 - **Proctor & Gamble's business seminar** for top senior students who scored high results on the company's test.
 - Introduction to ORACLE PL/SQL.

- Skills**
- Practiced engineering applications/solutions packages evaluation utilizing Kepner-Tregoe analysis.
 - Strong experience on system administration and applications development with OSIsoft data server (PI-UDS) and all of its applications (PI-Advanced Computing Engine, PI-ActiveView, PI-ProcessBook, PI-DataLink, PI-Software Development Kit, and many PI-Interfaces).
 - Hands-on experience with Data Validation & Reconciliation application of VALI from Belsim.s.a. (www.belsim.com).
 - Ability to program in FORTRAN 77, VB6, VBA, & VB.NET.
 - Experienced in statistical operations and excellent in mathematics.
 - Practiced web page design.

- Professional Organizations**
- Member of IEEE since year 2000.
 - Member of IEEE Computer Society 2002 - 2005
 - Member of Saudi Engineers Council.
 - Member of MESA and the 2006 treasurer of the Middle East chapter.
 - 2005 Chairman of Saudi Aramco Process Information Community of Practices (PI-CoP).

- Ongoing Work (Nov, 2006)**
- Developing evaluation criteria for vendors' questionnaire of APM.
 - Issuing "Saudi Aramco Materials System Specifications for Data Reconciliation System" (Drafted).
 - Developing "Saudi Aramco Materials System Specifications for Asset Performance Management applications" (draft is underdevelopment).
 - Exploring and building technical case for Soft Sensing (SS) capabilities and contribution on a Data Reconciliation Application at Refinery Crude Distillation Unit.

Interests Reading novels and historical books, oil painting, writing pomes, designing plans of residential houses, playing soccer and camping.

References Available upon request.

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