



**Silent Alarm™**  
Real-time Membrane Plant  
Monitoring & Reporting Technology



## MASAR Technologies, Inc.'s Profile

**Consulting, Plant Design, Monitoring, Trouble-Shooting**  
Plant Design, Operation & Performance Optimization Services

**Water Treatment & Membrane Desalination Technology Applications**

Reverse Osmosis, Nanofiltration, Ultrafiltration & Microfiltration  
*Seawater, Brackish, Ultrapure & Industrial Wastewater Applications*

**REAL-TIME PLANT MONITORING EVALUATION & SERVICES**

**MEMBRANE FOULING DETECTION & SYSTEM PERFORMANCE**

Innovative **Silent Alarm** Technology  
*Membrane Alarm System and Automated Reporter (MASAR®)*

**Real-Time Performance Monitoring Software Systems**

**MASAR® Limited** (Single-Train, *Single-Pass RO/NF*)

**MASAR® Optima** (Multi-Train *Single-Pass RO/NF*)

**MASAR® Plus** (Multi-Train, *Double-Pass RO/NF*)

**Membrane Desalination Technologies in Practice**

**Intensive Training Workshops, Courses & CD-ROM's**

25 Years of Hands-on Industrial & Technical Involvement in Design,  
Operation Startup/Commissioning, Monitoring, Performance Optimization  
& Operator Training at Major Membrane System Water Purification Plants  
& Projects - Arabian Gulf/Middle-East, Europe & U.S.A.



**MASAR Technologies, Inc.**

1688 Lost Moon Court, Tucson, Arizona 85737 USA

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**Mohamad Amin Saad**, *President & Chief Consultant/Trainer*



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## PROFESSIONAL SERVICES

<http://www.masar.com/services/consulting.html>

- ◆ Technical Proposal, Feasibility & Specifications Write-up & Review for Major SWRO and BRO Projects in the Middle East/Arabian Gulf Region.
- ◆ Innovative **Silent Alarm** Membrane Plant Monitoring and Evaluation Service for Early-Warning Plant Performance, Fouling and Cost Monitoring and Optimization (*in-house service*).
- ◆ Licensing and Customization of **MASAR® Limited**, **MASAR® Optima™** and **MASAR® Plus™** Software Systems for Real-time Membrane Plants Monitoring & Optimization and Early-Warning Fouling Detection.
- ◆ On-Site Plant Evaluation, Trouble-Shooting and Optimization of System Operation and Performance.
- ◆ Pre-Treatment and Membrane System Design Specifications and Recommendations.
- ◆ Pre-Treatment System Monitoring, Testing, Evaluation and Optimization.
- ◆ Feed Water Chemistry and Quality Analysis and Chemical Dosing Optimization.
- ◆ Effective Membrane System Cleaning and Storage Techniques.
- ◆ Membrane System Refurbishment and Re-Configuration Program Design.
- ◆ General Plant Operational and Maintenance Checks and Procedures.
- ◆ Plant Personnel Intensive Classroom and Field Training Workshops, Seminars & Courses.
- ◆ Pilot Testing Program Design, Monitoring and Data Analysis & Evaluation.
- ◆ Review of Technical Proposals, Specs, O&M Manuals & Vendor Offers.
- ◆ Technical Feasibility Analysis and Cost Effectiveness Studies.
- ◆ Assistance with Preventative Maintenance Programs & Special Applications.
- ◆ English-Arabic/Arabic-English Professional Translation & Interpretation Services for Technical Documents, Proposals, Project Specs, Agreements, Publications and others (<http://www.almasartranslations.com>).
- ◆ Photography, Graphic Design and Multi-media presentations for Promotional & Documentation Purposes.



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## EXPERTISE & QUALIFICATIONS

**Eng. Mohamad Amin Saad, Chief Consultant**

<http://www.masar.com/technology/mas.html>

- Solid Chemical Engineering & Chemistry Background (MS/BS Chemical Engineering - Georgia Institute of Technology, USA; B.S. Chemistry - American University in Cairo, Egypt).
- 25 Years of Hands-On International Industrial Membrane Technology Expertise & Proven Track Record (DuPont Desalination Industry – Middle East/Europe & USA' Aqua-Chem, Inc., The Biosphere 2 Environmental Project in Arizona & MASAR Technologies, Inc. - USA).
- Expert Technical & Business Consulting Services.
- Proposal Write-up, System's Technical Feasibility Analysis, Design, Startup Assistance, Monitoring, Trouble-Shooting, Performance Analysis & Operational Optimization of Seawater and Brackish Water Desalination Plants in the Middle-East, including major Red Sea, Mediterranean & Arabian Gulf seawater RO plants for Saudi Arabian SWCC & RWSD, UAE's WED, Bahrain's MEW, Malta & other water authorities.
- Development, Application & Licensing of Innovative Technologies & Software Systems for Membrane Plants.
- Training Services on Membrane Desalination Technologies in Practice to Government and Private Clients in the Water, Power and Process Industries.
- Industrial Wastewater Pretreatment Requirements, Design Optimization & Evaluation.
- Evaluation, Trouble-Shooting & Control and Prevention of Membrane Biofouling & Colloidal Fouling/Scaling.
- Pilot Testing Program Design, Implementation, Operation & Performance Data Analysis.
- Technology Application, Marketing (The US, Europe, Middle East & India).
- International Multi-Cultural Experience - Fluency In Arabic & English.
- Several International Publications on Membrane Desalination Technologies, Fouling, Plant Operation & Performance Evaluation.
- Memberships in and involvement with the International Desalination Association (IDA), the European Desalination Society (EDS), Arab Science and Technology Foundation's Desalination Road Map Forum, Arab Water World's Editorial Board and the Middle East Desalination Research Center's Project Advisory Board.



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