

Curriculum Vita

Name: Khalil Salem Sa'ed Marji
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Education and activities:

- ✓ PhD in industrial engineering and management (polytechnic university of Bucharest) oct. 1994 – Feb. 1998 (scholarship / Ministry of Higher Education & Research)
- ✓ Master degree (high diploma) in Mechanical Engineering Technology – Production Engineering 1974-1981 (scholarship / Ministry of Education)
- ✓ General Secondary Education certificate / Scientific Stream 1974
- ✓ Participated in a scientific symposium with a paper titled “**optimizing statistical quality control parameters**”, Bucharest 24-25 oct, 1997

Academic Experiences:

- ✓ Instructor in Amman college for engineering technology/ mechanical department since 1982 – 1995
- ✓ Instructor in faculty of engineering technology/Al-Balga' Applied University 1998 – now
- ✓ Head of mechanical engineering department sept. 1999 – oct. 2001
- Coordinator of a committee responsible for preparing a **3-years study plan for a specialty of maintenance program of office machines/ ministry of education**
- ✓ Member of a committee responsible for preparing a studying plan for an engineering program of specialty **hydraulic and thermal machines** at Al-Balga' applied university

Practical Experiences:

About one year of practical work (1981-1982) as **maintenance and production engineer**, in that year I practice to maintain different machines such as; Refrigerators, Automatic & manual washing machines, Photocopiers, pumps, compressors, piping works, basic electrical & mechanical works,...etc.

Languages:

- ✓ **Arabic:** the native language (v-good)
- English:** the studying language of the PhD as well as the courses studied in the Jordan university (very good)
- ✓ **Romanian:** the studying language for the diploma degree (v- good)

Courses taught:

Fluid Mechanics	Hydraulic Machines	
Theory of Machines	Engineering Materials	
Strength of Materials	Mechanics/Static	
Engineering Economics	Machine Components and Mechanisms	(continue)
Fluid Mechanics Lab.	Strength of Material Lab	

Hydraulic Machines Lab
Theory of Machines Lab
Engineering Workshop

Applied Mechanics Lab
Thermodynamics Lab
AutoCAD & Engineering Drawings

Areas of proficiency:

Theory of Machines and Mechanisms:

Strong background in analyzing and synthesizing the followings: degree of freedom; basic 4-bar and 6-bars mechanisms; analyzing displacements, velocities, and accelerations using analytical and graphical methods; Gears; Cams and Followers; performing static and dynamic force analysis; Performing static and dynamic balancing for rotary and masses.

Fluid Mechanics and Hydraulic Machines

General applications of the principles of fluid mechanics; Analyze the performance of pumps /turbines and select them for appropriate applications; Design/selection efficient systems that minimizes the amount of energy required to drive pumps/turbines

Simulation and statistical quality control:

strong background in Monte Carlo methodology including manufacturing process simulation, application in process capability, studies of manufacturing processes, simulation with probability distributions, statistical data analysis, statistics methods, techniques, economical and technical design of control charts, and optimizing statistical quality control plan parameters.

Engineering economy:

Familiar with comparison of proposals;, feasibility of projects, ordering alternatives, decision criteria for analysis, selecting and accepting alternatives, estimation of costs and benefits, optimal economic life, depreciation computations, analysis of before tax and after tax costs, and break-even point as a decision tool.

Project management and network modeling:

Familiar with network construction using CPM and PERT techniques; Scheduling computations; PERT statistical approach.

Advanced courses successfully completed:

Advanced Engineering Statistics	Computer Integrated Manufacturing
Production Management and Inventory Control	Project Management and Network Modeling
Advanced Operations Research	Advanced Industrial Quality Control
Advanced Engineering Economics	Utilization of Computer in Statistical Quality Control
Total Quality Control	Industrial Management

Training courses successfully completed:

- ✓ ICDL course 100 hours
- ✓ AutoCAD 45 hours
- ✓ Applying the Jordanian codes for: Central Heating Systems; Water Supply; Insulation; Drainage.

Achievements:

Related to the doctoral theses "Optimizing Quality Control Parameters" A new formula has been elaborated with new factors. The mentioned achievement was discussed and accepted by the committee of symposium mentioned earlier.