

VITA

Murad S. D. Samhuri, PhD, CSCP, PMP

PERSONAL DATA

Permanent Address: Tela'a Al-Ali, Barake Avenue, Amman
JORDAN. P.O.Box: 3815 Amman 11953
Tel: (962) 6 567 5357 (Home)
(962) 79 9922952 (Cell)
E-mail: murads75@yahoo.com
murad.samhuri@gju.edu.jo

Birth: October 01, 1975

Marital Status: Married

Sex: Male

Citizenship: Jordanian

Hobbies: Football, Swimming

EDUCATIONAL BACKGROUND

High School Amman, Jordan. Graduated July, 1993 in the top five percent.
School: Islamic Scientific College
GPA: 95.6 out of 100.

College **BSC.** in Industrial Engineering, University of Jordan.
Graduated January, 1998 in the Top ten percent of my department.
GPA: 3.29 out of 4.00 (V.Good)

MSC. in Industrial Engineering
University of Jordan, Amman

Jordan. Graduated October, 2000
In the top one percent of my faculty.
GPA: 3.94 out of 4.00 (excellent)

PHD: in Industrial and Systems'
Engineering, and Process Simulation,
Queen's University,
Kingston, Ontario, Canada. Graduated
July, 2005.

Certified Supply Chain Professional (CSCP)

Scholarships

A scholarship from the Ministry of
High Education in Jordan to study
Engineering at the University of Jordan,
1993 – 1998.

A scholarship from the Hashemite
University of Jordan to get PhD degree
in Artificial Intelligence and Neural
Networks from Queen's University,
Kingston, ON, Canada, 2002-2005.

Training Programs

Intensive engineering training courses in
Egypt at the Egyptian Iron and Steel Co.
(*Automated hot-rolling*), June-Sep.,1997.

(*Teaching and Learning Skills in High
Education*) at the Instructional Development
Center (IDC) of Queen's University,
Kingston, Ontario, Canada, 2003/2004.

Research Interests

Applications of artificial Intelligence
and soft computing on the Automation and
Manufacturing Systems, Robotics,
and Automatic Control Systems.
Maintenance Management systems,
Management Information Systems (MIS),
Project Management and knowledge Eng.

Computer Skills

Autocad, Cadkey, Solid Edge, 3D Studio,
Fortran, Visual Basic, Labview, Matlab,
Simulink, dSPACE, Promodel, PowerPoint,
Word, Excel, MasterCAM, Visio, and
dSPACE, Microsoft Project MSP, and
Crystal Ball.

Publications

- 1) Abu-Ghosh, **M., Samhouri, M.**, Al-Holy, M., Albashir, A., and Abdelhafez, E “Formulation and Evaluation of Coating Content and their Distribution on Chips Products by Automated Inspection using Fuzzy-based Image Processing”, *Journal of Food Process Engineering*, Published Online, 2015.
- 2) Abu-Ghosh, **M., Samhouri, M** “Fuzzy Identification and Modeling of Common Caffeine-containing Beverages Consumption on Blood Pressure”, *Pakistan Journal of Nutrition*, 14, PP. 563-569, 2015.
- 3) Yousef Abdallat, Ahmad Al-Ghandoor, **Murad Samhouri**, Mohammad Al-Rawashdeh, and Ahmad Qamar “Jordan Transport Energy Demand: The Application of Adaptive Neuro-fuzzy Technique”, *International Review of Mechanical Engineering, (I.R.E.M.E)*, Vol. 5, No. 6, P1321, 2012.
- 4) Ahmed Al-Ghandoor, **Murad Samhouri**, Ismael Al-Hinti, Jamal Jaber, and Mohammad Al-Rawashdeh “Projection of Future Transport Energy Demand of Jordan Using Adaptive Neuro-fuzzy Teachnique”, *Energy*, **38**, issue1, pp. 128 – 135, 2012.
- 5) Rami H. Fouad, **Murad S. Samhouri**, and Ahmad M. Qamar “An Intelligent Preventive Maintenance Scheduling in ERP Systems: A Fuzzy Logic Approach”, *International Journal of Advancements in Computing Technology (IJACT)*, Vol. 4, No. 23, PP. 651 – 661, 2012.
- 6) Souma M. Alhaj Ali, Ayman A. Abu Hammad, **Murad S. Samhouri**, and Ahmed Al-Ghandoor “Modeling Stock Market Exchange Prices using Artificial Neural Network: A Study of Amman Stock Exchange”, *Jordan Journal of Mechanical and Industrial Engineering (JJMIE)*, Vol.5, No.5, PP.439 – 446, 2011.
- 7) Fouad R.H, and **Samhouri, M** “A Fuzzy Logic Approach for Scheduling Preventive Maintenance in ERP System”, International Conference on Management and Service Sciences (MASS 2011), IEEE, 12-14 August 2011.
- 8) **Murad S. Samhouri**, Sahar Idwan, and Adnan Mukattash “A System for Adaptive Intelligent Learning (SAIL)”, *International Review on Modelling and Simulation (IREMOS)*, **4**, 5, PP.2651 – 2656, 2011.
- 9) Adnan Mukattash, and **Murad Samhouri** “Supply Planning Improvement: A Causal Forecasting Approach”, *Journal of Applied Science*, **11**, 12, pp. 2207 – 2213, 2011.
- 10) Adnan Mukattash, Sahar Idwan, Moh’d Sami Ashhab, **Murad Samhouri**, and Izzeddin Matar “Optimal Computerized Model for Designing Cellular Manufacturing System Using Neural Networks”, *Journal of Applied science*, **11**, 5, pp. 2837 – 2842, 2011.
- 11) Adnan Mukattash, Ahmed Al-Ghandoor, **Murad Samhouri**, and Moh’d Sami Ashhab “A Modified Similarity Coefficient Measure for Cell Formation Using a Correlation Analysis Approach”, *European Journal of Scientific Research*, **65**, 1, pp. 38 – 44, 2011.
- 12) A. Mukattash, R.H.Fouad, H. Kitan, and **M. Samhouri** “Computer-aided Maintenance Planning System for Industrial Companies”, *Jordan Journal of Mechanical and Industrial Engineering (JJMIE)*, **5**, 3, pp. 227 – 234, 2011.

- 13) **Murad Samhouri**, Mahmoud Abu-Ghoush, Emad Yaseen, and Thomas Herald “Fuzzy clustering-based modeling of surface interactions and emulsions of selected whey protein concentrate combined to i-carrageenan and gum arabic solutions”, *Journal of Food Engineering*, 91, 10-17, 2009.
- 14) **M. Samhouri**, A. Al-Ghandoor, S. A. Ali, I. Hinti, and W. Massad “An Intelligent Machine Condition Monitoring System Using Time-Based Analysis: Neuro-Fuzzy Versus Neural Network”, *Jordan Journal of Mechanical and Industrial Engineering (JJMIE)*, 3, 4, 294-305, 2009.
- 15) **Murad Samhouri**, Mahmoud Abughoush, and Thomas Herald “Fuzzy Identification and Modeling of a Gum-Protein Emulsifier in a Model Mayonnaise Color Development System”, *International Journal of Food Engineering*, 3, 4, Article 11, 2007.
- 16) **M. S. Samhouri**, A. Al-Ghandoor, R. H. Fouad, and S. M. A. Ali “An Intelligent Opportunistic Maintenance (OM) System: A Genetic Algorithm Approach”, *Jordan Journal of Mechanical and Industrial Engineering (JJMIE)*, 3, 4, 1-6, 2009.
- 17) Mahmoud Abu Ghoush, **Murad Samhouri**, Murad Al-Holy, and Thomas Herald “Formulation and fuzzy modeling of emulsion stability and viscosity of a gum–protein emulsifier in a model mayonnaise system”, *Journal of Food Engineering*, 84, 348-357, 2008.
- 18) A. Al-Ghandoor, J. O. Jaber, **M. Samhouri**, and I. Al-Hinti “Analysis of aggregate electricity intensity change of the Jordanian industrial sector using decomposition technique”, *International Journal of Energy Research*, 33, 255-266, 2009.
- 19) A. Al-Ghandoor, and **M. Samhouri** “Electricity Consumption in the Industrial Sector of Jordan: Application of Multivariate Linear Regression and Adaptive Neuro-Fuzzy Techniques”, *Jordan Journal of Mechanical and Industrial Engineering (JJMIE)*, 3, 1, 69-76, 2009.
- 20) I. Al-Hinti, **M. Samhouri**, A. Al-Ghandoor, and A. Sakhrich “The effect of boost pressure on the performance characteristics of a diesel engine: A neuro-fuzzy approach”, *Applied Energy*, 86, 113-121, 2009.
- 21) Mahmoud Abu-Ghoush, **Murad Samhouri**, Emad Yaseen, and Thomas Herald “Fuzzy Clustering Modeling and Evaluation of Surface Interactions and Emulsions of Selected Wheat Protein Combined to Iota-Carrageenan and Gum Arabic Solutions”, *Journal of Food Process Engineering*, 33, 131-149, 2010
- 22) Souma M. Alhaj Ali, Ayman A. Abu Hammad, Ghaleb J. Sweis, and **Murad S. Samhouri** “Productivity Improvement of Pre-cast Concrete Installation”, *Jordan Journal of Civil Engineering*, 3, 2, 150-157, 2009.
- 23) Mahmoud Abughoush, Majdi Al-Mahasneh, **Murad Samhouri**, Murad Al-Holy, and Thomas Herald “Formulation and Fuzzy Modeling of Viscosity of an Orange-Flavored Carboxymethyl cellulose-Whey Protein Isolate Beverage”, *International Journal of Food Engineering*, 4, 7, Article 12, 2008
- 24) Nabeel Mandahawi, Ahmed Al-Ghandoor, **Murad Samhouri** and Sameh Al-Shihabi “Modeling Hand Anthropometric Dimensions of the Jordanian Population: The Application of Multivariate Linear Regression and Adaptive Neuro-Fuzzy Techniques”, *Proceedings of the 2008 Industrial*

Engineering Research Conference, 1242-1247, 2008, Vancouver, Canada, J. Fowler and S. Mason, eds.

- 25) **Murad S. Samhouri** and Rami H. Hadithi “Machine Condition Monitoring Through Frequency Analysis Of Maintenance Records: A Neuro-Fuzzy Approach”, *Proceedings of the 37th International Conference on Computers and Industrial Engineering*, October 20-23, 2007, Alexandria, Egypt, edited by M. H. Elwany, A. B. Eltawil.
- 26) **Murad Samhouri**, Ahmed Al-Ghandoor, and Ibrahim Rawabdeh “Modeling of The Manufacturing Aggregate Energy Intensity In Jordan Using Neuro-Fuzzy”, *Proceedings of the 37th International Conference on Computers and Industrial Engineering*, October 20-23, 2007, Alexandria, Egypt, edited by M. H. Elwany, A. B. Eltawil.
- 27) **Murad S. Samhouri**, and Brian W. Surgenor “Surface Roughness In Grinding: On-Line Prediction With Adaptive Neuro-Fuzzy Inference System”, *Transactions of North American Research Institute (NAMRI/SME)*, Volume 33, pp 57 – 64, 2005
- 28) **Murad S. Samhouri**, and Brian W. Surgenor “Surface Roughness In Grinding: Off-Line Identification With an Adaptive Neuro-Fuzzy Inference System”, *Transactions of North American Research Institute (NAMRI/SME)*, Volume 33, pp 525 – 532, 2005
- 29) **Samhouri, M.**, (2005) “Neuro-fuzzy Approach to the Prediction and Control of Surface Roughness During Grinding”, *Doctor of Philosophy Thesis*, Department of Mechanical and Materials Engineering, Queen’s University, Kingston, Ontario, Canada.
- 30) **Samhouri, M.** Raoufi, A. and Surgenor, B. (2005) “Control of Pneumatic Gantry Robot for Grinding: A Neuro-fuzzy Approach to PID Tuning”, *Proceedings of IEEE Conference on Control Applications (CCA)*, August 28-31, Toronto, Canada.
- 31) **Samhouri, M.** Pophali, A. and Surgenor, B., (2005) “On the Prediction of Slippage in Headlamp Assembly Adjusters”, *Project Report for Decoma Autosystems, MMO Interact Project #A90195*.
- 32) **Samhouri, M.** and Surgenor, B., (2003) “On the Control of Surface Roughness in Automated Grinding “, *Proceedings of Automated and Intelligent Systems for High Performance Finishing Processes, Materials and Manufacturing Ontario (MMO) Workshop, Ryerson University, November 23, Toronto, Ontario, Canada*.
- 33) **Samhouri, M.** (2000) “Genetic Algorithms for Robot Trajectory Planning”, *Master of Science Thesis*, Industrial Engineering Department, University of Jordan, Amman, Jordan.

Taught Courses

Project management, Management information Systems (MIS), Artificial Intelligence (AI), Engineering Statistical Method, Engineering Technical Writing, Engineering Workshop, Time and Motion Study, Facilities Layout Planning, Enterprise Applications Integration, Industrial Systems’ Design, Supply Chain Management (SCM) and Logistics, Marketing Engineering, Product Design & Development, Management of Maintenance Systems (MMS), Spare Parts Warehousing, Production Planning & Control, Industrial Automation.

Training Experience

Export Development
Export Compliance
OSHA and Occupational Safety
Occupational and Engineering Safety
Management.
OSHA International Industrial Safety
Standards.
British Safety and Health Standards
Industrial operations diagnosis and
troubleshooting
Industrial process technical analysis
Scheduling and strategic management
Operational and production scheduling
Work Flow and Simplification
Total Quality Management (TQM)
Project management skills
Project budgeting and cost estimation
Project evaluation and feasibility Study
Computer applications in project management
Management Information Systems (MIS)
Enterprise Application Integration and ERP
Supply Chain Management (SCM)
Supply Chain Management System (SCMS)
Technical Writing Skills
Balanced Score Card (BSC) and Applications
Managerial Correction
Customer relationship management (CRM)
Managerial reporting
Maintenance Management

Industrial Consulting Experience

Export Development & Assessment
Business Process Reengineering (BPR)
Enterprise Application Integration (EAI)
Enterprise Resource Planning (ERP)
Strategic and Business Planning
Production Planning and Control (PPC)
Warehouse Management System (WMS)
Facilities Planning and Layout Design
Cost Accounting Systems
Service Quality Management (SERVQUAL)
Balanced Scorecards System
Maintenance Management System (MMS)
Industrial project management
Industrial and technical certification (ISO,
HACCP, CE, and TUV)
Industrial Research and development, QC/QA
Industrial Innovation and design of experiments
(DOE)
Computerized Maintenance Management
Systems (CMMS)
Automated Production Systems and Lines in
Process Industry

EMPLOYMENT HISTORY

- **Sept. 2019 – Present:** Director of Quality Assurance & Accreditation, German Jordanian University
- **Feb. 2016 – Present:** Associate Professor, Industrial Engineering department, SATS, German Jordanian University (GJU), Amman, Jordan.
- **April 2011 – April 2014:** Associate Professor, Industrial Engineering department, The Hashemite University, Zarqa, Jordan.
- **Sept. 2005 – April 2011:** Assistant Professor, Industrial Engineering department, The Hashemite University, Zarqa, Jordan.
- **Sept. 2002 - May 2005:** Teaching Assistant, Department of Mechanical and Materials Engineering, Queen's University, Kingston, Ontario, Canada
- **June 2004 - Dec. 2004:** Research Assistant, Department of Mechanical and Materials Engineering, Queen's University. (MMO Interact project, Decoma Auto systems, Belleville, Ontario, Canada).
- **Sept. 2003 - May 2004:** Lead Teaching Assistant, Instructional Development Center, Queen's University, Kingston, Ontario, Canada.
- **Sept 1999 - May 2000:** Teaching Assistant, Industrial Engineering Department, University of Jordan, Amman, Jordan
- **Jan. 1998 - Sept. 2002:** Production manager, Metal forming industry, Amman, Jordan
- **Jan. 1996 - Jan. 1998:** Production engineer, Metal forming industry, Amman, Jordan.

Experience and Projects

Date	Country	Client	Project Name and Brief Description	Employer	Role of Consultant	Execution period	Status
2019	Jordan	USAID – JCP (DAI)	Export Capacity Building and Training	USAID – JCP (DAI)	Export Consultant/ Trainer	2 Months	Done
2017/2018	Jordan	USAID – JCP (DAI)	Firm Level Assistance – Support	USAID – JCP (DAI)	Technical Lead	9 Months	Done
2019	Jordan	USAID – LENS (FHI360)	Establishing HBBs Support Facility	USAID – LENS (FHI360)	Technical Lead	8 Months	In Progress
2016/2017	Jordan	USAID – LENS (FHI360)	Local Micro and Small Enterprises (MSEs) Capacity Upgrade	USAID - LENS	Project Manager	8 Months	Done
2017	Jordan	USAID – LENS (FHI360)	Food Processing Home-based Businesses (HBBs) – Home-to-Vendor (H2V) Initiative	USAID - LENS	Project Manager	9 Months	Done
2016	Jordan	USAID – LENS (FHI360)	Good Manufacturing Procedures (GMP) for Food Processing Industries	USAID - LENS	Project Manager	3 Months	Done
2012/2014	Jordan	QUDS Paints Industries Co.	An Automated Dry-mortar tower	Quds Paints	Project Manager	12 Months	Done
2011/2012	Jordan	(TOP) Arab Technical for Plastics Industries (Furniture Plant/Plastic Chairs and Tables)	Production planning and Control, and Inventory Control system	(TOP) Arab Technical for Plastics Industries	Design of production planning and Inventory control systems	6 months	Done
2011/2013	Jordan	QUDS Paints Industries Co.	Research and development (R&D) Upgrading and European certification	Quds Paints and Jordanian enterprise development corporation (JEDCO)	Project manager and R&D trainer	12 Months	Done
2010 - 2014	Jordan	Bahrani Group	Implementation of an ERP system	Bahrani Group	Project Manager and Quality	24 months	Done

					Assurance Manager		
2010	IRAQ	Advanced Prefabricated Caravans (Prefabricated Furniture Plant)	Project Costing System	Bahrani Group	Design and implementation of project costing system for inside and outside (interior furniture)	6 months	Done
2010 - 2011	Jordan	George Abu Zeid	Implementation of an ERP system	George Abu Zeid	Steering Committee, and Quality Assurance Manager	6 months	Done
2010	Jordan	PALCO	Warehouse Management System (WMS)	NAFIS	Design and Implement the system	4 months	Done
2009 - 2010	Jordan	PALCO	Layout design (Redesign of a new layout for the production and warehousing areas)	JUMP	Design and Implement the system	6 months	Done
2009-2010	Jordan	QUDS Paints	Design of a Balanced Score Card (BSC) System	NAFIS	Design	6 months	Done
2008 - 2009	Jordan	QUDS Paints	Design and implementation of a computerized Maintenance Management system	JUMP	Design and implement the system	4 months	Done
2009-2010	Jordan	QUDS Paints	Implementation of an ERP system	QUDS Paints	Steering Committee, and Quality Assurance Manager	12 months	Done
2008 - 2009	Jordan	QUDS Paints	Layout design (Redesign of a new layout for the production and warehousing)	QUDS Paints	Project Manager	12 months	Done
2007	Jordan	PARTLOCK (Specialized Furniture plant)	Layout design (Redesign of a new layout for the production and warehousing)	NAFIS	Design and implement the system	3 months	Done
2008	Jordan	HABOUB Air Conditioning	Capacity Planning (Design of a capacity requirements planning system CRP)	NAFIS	Design and implement the system	3 months	Done

2008	Jordan	Protech (Specialized Furniture Plant)	Product Design and Project Implementation	Protech	Product design and implementation on supervisor	6 months	Done
2004-2005	Canada	Decoma AutoSystems	Improvement of quality of headlights	General Motors	Project Manager	12 months	Done
2006-2008	Jordan	Arab Potash Company	Intelligent Predictive Maintenance System	Arab Potash Company	Researcher	24 months	Done

REFERENCES

Prof. B.W. Surgenor

Department of Mechanical and Materials Engineering, Queen's University, Kingston, Ontario, Canada.

Tel: +1-613-533-2568

E-mail: surgenor@post.queensu.ca

Prof. R.J. Anderson

Mechanical Engineering Department
Queen's University at Kingston, Canada.

Tel: +1-613-533-2565

E-mail: anderson@post.queensu.ca

Prof. Dr. Ing. D. Popovic

Institute of Automation Technology,
Univ. of Bremen, Bremen, Germany.

E-mail: popovic@iat.uni-bremen.de

Fax: +49 - 4 - 21272298

Mr. Talal Bahrani

CEO (Owner), Bahrani Group
King Abdullah II Industrial Zone, Sahab
Amman, Jordan

Cell: +962-79-7080708

Email: tb@bahrangroup.com

Eng. AbdelHamid Edlebi

Assistant GM, SIPES Paints, Amman, Jordan

Cell: +962-79-5880019

Email: edlebi@sipes.net

Mr. Rashad Bibars

Chief of Party (COP), USAID – LENS, Amman, Jordan.

Cell: +962-79-5606677

Email: rbibars@jordanlens.org

