

## Curriculum Vitae



### Dr. DAW ALWERFALLI

Professor of Mechanical / Manufacturing Engineering  
Director of Engineering Management Graduate Degree Program  
College of Engineering  
Lawrence Technological University (LTU)  
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#### **PROFILE**

Prominent professor, senior technical industry consultant and manufacturing engineering educator with a tremendous expertise in program and curriculum development in higher technical education. Highly experienced and dedicated community leader with great ability to work with an array of constituencies and coalitions in developing shared organizational vision to create and implement strategies aimed at advancing common causes to accomplish goals in fulfillment of the organization's mission. Possess good analytical and decision-making skills, and the ability to conceptualize new initiatives and solutions to problems while possessing an outcomes orientation. Highly perceived expert and industrial advisor, driven to acquire and apply industry proven standards, practices, and methodologies to offer the best possible solutions that improve, productivity, quality, performance and reliability while reducing costs. Published numerous well recognized technical papers in local, National and international conferences.

#### **AREAS OF EXPERTISE**

- Lean Manufacturing Systems and Processes
- Supply Chain Management
- Production Planning and Control
- Quality Management Systems and ISO 9000 Certification
- Product Development and Innovation
- Leadership Development
- Engineering Management
- Process and Quality Improvement
- Strategic Planning
- Engineering Education and Training

#### **EDUCATIONAL BACKGROUND**

Doctor of Engineering (Manufacturing),	honors	University of Detroit Mercy	1989
Master of Engineering (Manufacturing),	honors	University of Detroit Mercy	1981
Master of Science (Textile Engineering))		Georgia Tech, Atlanta	1978
Bachelor of Science (Mechanical Engineering)		University of Tripoli	1972

## **PROFESSIONAL EXPERIENCE**

1990- Present: Professor, Mechanical Engineering Department / Director of Master of Engineering Management Degree Program, College of Engineering, Lawrence Technological University.

## **COURSES DEVELOPED & TAUGHT**

- |  |                                    |
|--|------------------------------------|
| 1. Quality Engineering Systems         | 7. World Class Manufacturing       |
| 2. Manufacturing Processes             | 8. Automotive Manufacturing        |
| 3. Design for Manufacturing            | 9. Engineering Management          |
| 4. Production Planning and Control     | 10. Value Engineering              |
| 5. Engineering Supply Chain Management | 11. Product Innovation & Design    |
| 6. Manufacturing Systems               | 12. Global Leadership & Management |

1986 -1990: Consultant, AWA, Inc., Detroit, Michigan  
Conducted consulting in the area of "Manufacturing Engineering Training and Education"

1979 -1986: Research Fellow, University of Detroit-Mercy, Manufacturing Engineering Master/Doctorate degree Programs.

1978 -1979: Assistant Professor, University of Tripoli, Mechanical Engineering, Tripoli Libya.

Taught the following courses:

- Plant Layout and Design
- Production Planning and Control
- Manufacturing Processes and Systems
- Senior Mechanical Engineering Projects

1972 -1978: GNOFI, Senior Manufacturing Engineer, Tripoli, Libya. Managed the following projects:

1. Led a team to design, develop and supervise the production of spirally welded pipes for the transport of crude oil in Libya.
2. Member of a task force that developed a feasibility study to build the largest textile plant in Tripoli Libya. The study provided a comprehensive plan of site selection, plant layout, equipment selection, training of personnel, long term production plans and logistics.

## **INDUSTRY COLLABORATION**

1995-2008 Chrysler Corporation: Senior Technical Consultant at Advance Manufacturing Engineering (AME) at various locations of Chrysler plants. Successfully lead and conducted several research projects that saved over 26 Million dollars for Chrysler. Projects included:

1. Connor Avenue Assembly Plant (CAAP) developed the Chrysler Operating System, 1995.
2. Jeep and Truck Engineering (JTE), implemented the Quality Management Systems (QMS) at Truck Platform, 1996.
3. Warren Truck Assembly Plant (WTAP), developed Work Station Optimization Program at the engine house, transmission line and door line for the Ram and Dakota trucks, 1997 and 1998
4. Sterling Height Stamping Plant (SHSP), developed ISO 9000:2000 training program for senior plant management and implemented and led the plant to ISO 9000:2000 registration 1999, 2000.
5. Jeep and Truck Engineering (JTE), implemented the QMS - ISO 9000:2000, 2001
6. Jeep and Truck Engineering (JTE), implemented Chrysler Development System (CDS), Enhanced Environmental System (EEMS) and Manufacturing Quality Assurance System (MQAS) at JEEP Platform, 2002, 2003

7. Jefferson North Assembly Plant (JNAP), investigated the impact of “Piercing Process on Front-End-Alignment (FEA) Warranty Costs of WK Model. 2004, 2005
8. Toledo North Assembly Plant (TNAP), investigated the impact of “FEA Variation on Warranty Costs of XK Model. 2006.
9. Pilot Process Verification Center, CTC, develop a plan to effectively introduce Line Speed Simulation at PPVC, 2007, 2008. TOTAL SAVINGS for CHRYSLER during these internships exceeded \$ 26,000,000.00.

## **CONSULTING ACTIVITIES**

- 2012-2013 Developed a training seminar on Safety at workplace at BGSU, Ohio,  
 2012-2013 Developed and implemented the QMS for M.A.K.S Incorporated, expected registration: August 2014
- 2010 Developed and implemented lean strategy for the “AVA Group, Shanghai, China.
- 2008-2009 Developed AS 9100 Standard for Aerospace Industry for WELDMATION, Inc. Michigan WELDMATION is certified under AS 9100 Standard.
- 2004-2005 E-World-wise Senior Management Training to Exxon Mobile, Marathon, ConocoPhillips Executives, Huston Texas ,
- 2003 Industry Training Center (DMPITC), Developing DMPITC Quality System for ISO 9001-2000 Certification. Training the company Staff and prepared them for ISO 9001-2000 Registration Audit
- 2000-2001 QUAD Industries, Consulting activities included: Developing and Implementing ISO 9002 Quality System throughout the company. Training all Personnel and lead the company to QS 9000 Registration
- 1998-1999 Chrysler-DMU Inc., Consulting Activities included:
- Developing Quality Procedures and SWI’s for Sterling Heights Stamping Plant
  - Developing TPM Program for Tool and Die at SHSP
  - Training all Manufacturing Engineers and Supervisors on System 9000 of DCX.
  - Developing MQAS for AME at JTE of DCX.
- 1995 Lionel Trains, Consulting activities included:
- Developing a “General Manufacturing” course for all Production Personnel
  - Redesign and developing “Material Flow System” and “Flow Charts”
- 1994 Ford Motor Company, Consulting activities included:  
 Investigation and Analysis of Aging Effect on life of Polymer used in Construction of Automobile Bumpers Using Crash Testing.

## **PROGRAM DEVELOPMENT**

- Senior graduate faculty who participated in the development and launching of the Doctor of Engineering in Manufacturing Systems (DEMS) at the College of Engineering, 2000.
- Single handedly and successfully developed and launched the Master of Engineering Management (MEM) at LTU and on Site at Chrysler. The MEM program is the most successful graduate degree program at the college of engineering. 2003.
- Member of the Steering Committee for Dual Education System (MAT2). Currently developing a Technical Educational program for Community Colleges in Michigan. Coalition include: 7 German; US-based companies namely: Orbitack, Kostal, Brose, Bosch, Daimler, Zf, partnering with MEDC of state of Michigan OCC, Delta College and HFCC. 2012
- Assessor and Evaluator of Community Colleges competencies and readiness when applying for partnering with DES-Steering committee; such as MCC, OCC, WCCC, Mott College, Delta College and others, 2013.

## **INTENSIVE TRAINING COURSES, DEVELOPED AND TAUGHT FOR INDUSTRY**

- 2013 Safety at Workplace for KSA-engineers at BGSU, Ohio
- 2013 Requirements for ISO 14000 standard certification, Michigan State University.
- 2013 Global Mindset for Young Leaders, Saginaw State University, MES.
- 2012 Quality Management Systems and Lean Manufacturing for KSA engineers at BGSU, Ohio.GTS.
- 2011 Project Risk and project Management, Quality Eng. Systems, Modern Manufacturing, GTS.
- 2010 Engineering Safety, Managing Complex Manufacturing Systems, GTS.
- 2009 Leadership and Management, GTS.
- 2008 Time Management, GTS.
- 2008 Stress Management, GTS
- 2008 Developed an Intensive training course in AS 9100 Aerospace Standard for WELDMATION, Inc.
- 2007 Developed and taught "Production Planning and Control" for JTE Engineers of Chrysler Corp.
- 2006 Developed and taught "Quality Engineering Systems" for JTE Engineers of Chrysler Corp.
- 2005 Developed and taught "Product Innovation and Design", JTE Engineers of Chrysler Corp.
- 2004 Developed and taught "Leadership and Management" JTE Engineers of Chrysler Corp.
- 2003 Trained MDPITC staff on ISO 9001-2000 Implementation / Registration QMS.
- 2002 Trained Engineers of Activity Vehicles-AME DCX at PROC on CDS, MQAS, and EEMS
- 2002 Developed and trained CEO, engineers, and staff of Quality Professional Inc. Dearborn on ISO 9000-2000 and developed QPI Strategic Plan and Quality System.
- 200 Developed "ISO-9001-2000 Implementation / Registration", Workshop, QUAD Industries.
- 2000 Developed "Assembly Line Optimization" Workshop, Engine line, Transmission line of AN and BR Trucks DaimlerChrysler, Warren Truck Assembly Plant.
- 2000 Launched a successful Master of Engineering in Manufacturing Systems (MEMS) for Chrysler.
- 1999 Implemented "System 9000" Training programs and Workshops, MQAS at SHS Plant.
- 1996 Developed curricula for "Agile Manufacturing for the 21<sup>st</sup> Century," LTU/NSF. ATE consortium.
- 1995 Developed and conducted "Manufacturing Awareness Workshop," for high school students sponsored by: Society of Manufacturing Engineers and LTU.
- 1995 Developed "General Manufacturing" Course for Lionel Trains, Inc.
- 1994 Developed Manufacturing Engineering Modules for Center for Advanced Technology, Focus: Hope, "Inspection and Testing," and "Heat Treatment."
- 1994 Developed and taught a special course, "Manufacturing Engineering for High School Teachers," funded by SME.
- 1991 Developed and conducted a special course on Manufacturing Systems for the Advanced Engineering Staff, Truck and Bus Division of GM, Troy, Michigan.

## **FACULTY ENHANCEMENT PROGRAMS**

- 2010-2011 Decision Making and Project Risk and project Management, Quality Engineering Systems,
- 2006-2009 Time Management Training, Global Training Services, Manufacturing Engineering Solutions
- 2006 Enhanced Environmental Management System (EEMS)
- 2005 Six Sigma, Black belt training
- 2004 Chrysler Development Systems (CDS)
- 2001 "Homologation in the Automotive Industry", One-day seminar, Daimler Chrysler.
- 2000 "Lean Manufacturing", Seminar, DaimlerChrysler.
- 1999 "Manufacturing Quality Assurance System", Workshop, Daimler Chrysler.
- 1998 "Metrology-Gage R & R (Measurement and Inspection)", Workshop, PCM, Australia
- 1998 "Process Capability Studies", Training Program, Daimler Chrysler.
- 1997 "Front-End-Alignment Problem Solving Techniques", JTE-Daimler Chrysler
- 1996 "Chrysler Operating System" one-week Workshop, CAAP, Daimler Chrysler..
- 1993 "How to Accredite Your Manufacturing Engineering Program", one-day Workshop, SME,

- 1993 "SME-Engineering 2000," one-day Seminar, SME, Dearborn, Michigan.
- 1993 "Statistical Process Control in Manufacturing" one-day seminar, SME, Dearborn, MI.
- 1992 "Improving Performance and Quality, Using Advanced Composite Materials in Mechanical Systems," one-day course, LTU, Southfield, Michigan.
- 1992 "Effective Teaching Institute," one-day special faculty development program LTU.
- 1991 "Manufacturing Engineering for undergraduate and graduate students", two-week, faculty enhancement program, University of Michigan, Dearborn.
- 1991 "Design of Experiments," three-day course, SME, Southfield, Michigan.

## **SCIENTIFIC AND PROFESSIONAL ORGANIZATIONS**

- Founder and CEO of Manufacturing Engineering Solutions, Inc. (MES), 2000
- Founder and CEO of Global Training Services Corporation, (GTS) 2008
- Founder and CEO of US Technical Group, Inc. (USTG) 2010
- Member of the Governor's of Michigan Advisory Council for American Arab and Chaldean Affairs. Appointment ends 2014
- Member of the Board of Directors of American Arab Chamber of Commerce (AACC), since 2002
- Member of Advisory Board of Arab American Anti Discrimination Committee, ADC
- Society of Manufacturing Engineers (SME), LTU Student Chapter, Advisor and Senior Member
- Alpha Sigma Phi's Student's chapter Advisor, Lawrence Tech.
- American Society of Mechanical Engineers (ASME), Affiliate Member
- Pi Tau Sigma, Honor Society for Mechanical Engineers
- North America Die Casting Association (NADCA), Member
- American Society of Engineering Education (ASEE), Member

## **OTHER PROFESSIONAL ACTIVITIES**

- Nominated and selected by the State of Michigan on the LIFT Steering Committee for Michigan workforce development and training. (LIFT= Lightweight Materials Innovation for Tomorrow), a \$148,000,000 Federal Government funded project for workforce development, 2014.
- Member of the Steering Committee for Dual Education System (DES). Currently developing a Technical Educational program for Community Colleges in Michigan. Coalition include: 7 German US-Based companies and MEDC of state of Michigan OCC, Delta College and HFCC. 2012
- Member of the Strategic Planning Committee, US-Arab Economic Forum, 2003 (Detroit), 2006 (Huston) and Washington DC (2008). Attended by several US and Arab dignitaries to build economic bridges between US and Arab World.
- Member of the Focus-HOPE Greenfield Coalition Steering Committee 2000-2002
- Director of Master of Engineering Management Degree program 2003-present
- Director of Master of Engineering in Manufacturing Systems 2011-present
- Member of LTU Graduate council 2006-2010
- Chair of LTU Graduate Council 2008
- College of Engineering Representative of the task force leading LTU to accreditation of LTU graduate degree programs by NCA, 1996
- Member of LTU Smart Manufacturing Group.
- Member of the Manufacturing and Materials Committee
- Member of the Automotive Manufacturing Committee
- Member of the Tenure and Promotion Committee (2000)
- ME Faculty Search Committee (1996, 2000)
- Member of the Search Committee for the ME Chair, (2009)
- Chair of several Tracks at the Pacific Conference on Manufacturing and Management (PCMM) in Korea, Australia and USA, 1996-2000

- Chaired a session on "Ecological Vehicles-Renewable Energies", Conference, March, 26-29. Monte Carlo, Monaco, 2009.

## **PUBLICATIONS:**

1. "Burr Removal Rate Model for an Abrasive Jet Deburring Process." SME Paper NO.MR 89 441. Presented at the 1989 SME International Conference, Detroit, Michigan, May, 1989.
2. "An Analysis into Abrasive Air Jet Finishing Process for Small Components." IIT, Dec. 1989.
3. "Model Development and Optimization of the Abrasive Jet Machining," Pacific Conference on Manufacturing, Sydney, Australia, December 1990. Proceedings, pp. 939-946.
4. "Effective Manufacturing Engineering Education," Inter-America Conference on Engineering Technology Education, Rio de Janeiro, Brazil, April, 1994.
5. "Parametric Analysis of Injection Molding Process," Pacific Conference on Manufacturing, Sydney, Australia, Dec., 1994.
6. "Automotive Design for Assembly by Implementing No Adjustment Design Technique." Pacific Conference on Manufacturing, Sydney, Australia, December 1994, Co-author.
7. "Impact Testing and Analysis of Polypropylene Foam used in the Manufacturing of Automotive Bumper Systems," Pacific Conference on Manufacturing, Seoul, Korea, October 1996.
8. "Meeting the Need for Smaller and More Reliable Automotive Electronic Systems by Using Multi-Chip Module Technology," Pacific Conference on Manufacturing, Seoul, Korea, October 1996, Co-author.
9. "Minimizing Distortion from MIG Welding Closed Section Automotive Body Structures," Pacific Conference on Manufacturing, Seoul, Korea, October 1996, Co-author.
10. "Effect of Wheel Alignment on Vehicle Safety, Performance and Warranty Costs," Pacific Conference on Manufacturing, Brisbane, Australia, August 1998.
11. "A Heat Treatment Module for Computer Based Instruction of Material Science," Pacific Conference on Manufacturing, Brisbane, Australia, August 1998.
12. "ISO 9000 - A Milestone toward a Comprehensive Quality Management System," Pacific Conference on Manufacturing, Brisbane, Australia, August 1998.
13. "Effective Utilization of Manufacturing Quality Assurance System in the Automotive Industry", Pacific Conference on Manufacturing, Southfield, Michigan, 2000.
14. "Optimization of Cycle-Time for Assembly of Automotive Components Using Multiple SCARA Robots", Co-author, Pacific Conference on Manufacturing, Southfield, Michigan. 2000
15. "Solar Energy Application in US Automotive Plant, Feasibility Study", Ecological Vehicles-Renewable Energies, Conference, March, 26-29. Monaco, 2009
16. "Creating Value in Organizations through the use of value Management", IIER Annual Conference and Expo, June 7-9, 2010. Cancun, Mexico
17. "An overview of Value Engineering in Product Development and Design" IIER Annual Conference and Expo, June 7-9, 2010. Cancun, Mexico
18. "Implementing Lean Manufacturing Strategies at Your Organization" *Elimination of the 10 Wastes.* International Conference of Industrial Engineering and Operations Management (IEOM), Istanbul, Turkey, July 3-6, 2012
19. "Design for Six Sigma (DFSS) as a Proactive Business Process", International Conference of Industrial Engineering and Operations Management (IEOM), Istanbul, Turkey, July 3-6, 2012
20. "Valve Spring Fatigue Life Enhancement Using "NOVA", Co-Author with Dr. Mehieddine Rababeh, Dr. B. Jawad. Proceedings of the ASME, 2012 International Mechanical Engineering Congress and Exposition, Nov. 2012, Houston, Texas Paper# IMECE 2012-85611
21. "A Systematic Approach to Faculty Development towards Improved Capability in Tertiary Teaching in a Blended Learning Environment", Co-Author with Dr. Ashraf Badadwood, Dr. Annette Lerine Steenkap. New Orleans, Louisiana, ISECON, 2012,

22. Fatigue Life Improvement through the “NOVA” Process, co-author with: Dr. Mehieddine Rababeh, Dr. Badih Jawad, Hassan Choucair, SAE Congress, 2013. Paper 01-1400, Detroit, Michigan, April, 2013.
23. “Developing competency-based, industry-driven manufacturing education in the USA: bringing together industry, government and education sectors” Dr. Thomas Baumann, Sarah Harfst, Alice Swanger, Gary Saganski, Dr. Daw Alwerfalli, Amy Cell 27<sup>th</sup> IPMA World Congress, Germany, June 2013.
24. Higher Education Institutions and Industry Collaboration, “*The Foundation of a Successful Industry*” 5<sup>th</sup>. International Conference on Industrial Engineering & Operations Management. March 3-5. 2015. Dubai, UAE.
25. Co-Author with Yame Ahmed, “Development of Lean strategies for Continuous Improvement in Textile Industries”, IEOM, Conference, Sept. 23-25,2016. LTU, Southfield, Michigan USA.
26. Speaker at the IEOM, Conference, Speech Title” *Collaboration between Industry and Academia, A Basic Requirement for Successful Project Management*”, Sept. 23-25,2016. LTU, Southfield, Michigan USA.
27. Co-Author with Kamal Alzemali, Ford Motor Company and Ahmed Alsamarai Ford Motor Company, “Optimization of thermal Profile Process in Assembly Line of Printed Circuit Boards (PCB) Using Design of Experiments. IEOM, Conference, Sept. 23-25,2016. LTU, Southfield, Michigan USA.
28. Impact of Design Simplification Analysis (DSA) on Automotive Product Development. IEOM, Conference, Sept. 23-25,2016. LTU, Southfield, Michigan USA.
29. Co-Author with Ahmed Aljabr, “Effective Implementation of Total Productive Maintenance (TPM) in Saudi Arabian Companies”, IEOM, Conference, Sept. 23-25,2016. LTU, Southfield, Michigan USA.
30. Application of Quality Management Systems (QMS) in Construction Industry, IEOM, Conference, Sept. 23-25,2016. LTU, Southfield, Michigan USA.
31. “Impact of Entrepreneurial Education and Training Programs on the Success of Small Business Entrepreneurs, Iman Youssef, Co-Author, IEOM Conference, Rabat. Morocco, April 11-13, 2017
32. *Total Productive Maintenance (TPM) as a Lean Quality Tool for Enhancing the Overall Equipment Effectiveness (OEE)*, Ahmed Aljabr, Co-Author, IEOM Conference, Rabat. Morocco, April 11-13, 2017

### **ACADEMIC ADVISOR for DOCTORAL DISSERTATIONS**

1. “Effective Utilization of Agile Manufacturing Facilities (AMF) in solving logistics problems of Tactical Army Vehicles”, Adam Alaweih, Manager, TACOM,2005
2. Cost Reduction and Quality Improvement, Through Innovative Steering Gear Yoke Setting Process”, Ali Jammoul, Chief Engineer, FORD Motor Company 2009.
3. “Improving of racing Engine Valve Spring Performance using “ARMeD” Logic and the “NOVA” Production Process, Rababeh, 2012.
4. “Innovative application of DFRW Process in reducing Structural Weight and cycle time in Armoured Vehicles”, Michael Storinsky, General Dynamics Land Systems, January, 2013.
5. “A Systematic Approach to Faculty Development towards Improved Capability in Tertiary Teaching in a Blended Learning Environment”, Ashraf Badadwood,, 2012,
6. “Lean Manufacturing Strategies for the Libyan Textile Industry”, Ahmed Yami, DEMS Candidate Expected, 2017,
7. *Optimization of Thermal Profile Process in Assembly Line of PCB, using Design of Experiments* Kamal Alzameli, Ford Motor Co. Ford Motor Co. DEMS graduate, 2017

8. Applications of Continuous Improvement Methods at Saudi Aramco to Enhance Operational Efficiency, Ahmed Aljabr, DEMS candidate, Expected 2018.

### **CURRENTLY UNDERGOING RESEARCH**

1. "Engineering Changes in the Context of Lean and Concurrent Engineering",
2. "Effective Techniques Utilized in Vehicle Concept Selection"
3. "Lean Quality Tools in Manufacturing "
4. Design for Environment in Automotive Industry.
5. "Engineering Supply Chain Management" The New Approach for Enhancing SQDCM.
6. Higher Education Institution and Industry Collaboration "*A Critical Perspective*"
7. Weight Reduction through Innovative Application of Lightweight Materials in Manufacturing

### **US PATENTS**

Jointly with Dr. N. Taji of LTU, produced US Patent Number: 20050075238 -  
Activated carbon mesh fibre matrix embedded with lithium hydroxide and zeolite crystals for auto/track ventilation ducts

### **FUNDED RESEARCH**

1. \$ 30,000 DaimlerChrysler, Development of Product Innovation and Design course for DaimlerChrysler Engineers, JTE, 2006
2. \$438,000 Advanced Technological Education Alliance, Co-Principal Investigator, CAMI-NSF Grant Number # 23-7182065, allocated from Feb. 1995 - Aug. 1997.
3. \$16,995 SME grant to the Manufacturing Engineering Program at Lawrence Technological University, 1996. Principal Investigator.
4. \$ 6,320, SME grant to the Manufacturing Engineering Program at Lawrence Technological University, 1995. Principal Investigator
5. \$ 76,344, SME grant to the Manufacturing Engineering Program at Lawrence Technological University, 1994. Principal Investigator
6. \$ 39,740 Ford Motor Company, Plastic and Trim Products Division, 1994. PI
7. \$1,495,500, NSF Grant (9454655) Advance Technological Education Alliance (ATE)

### **HONORS AND AWARDS**

1. Recognition of "Excellence in student advising", Awarded Plaque by the KSA Embassy on behalf of 200 Saudi students at LTU, Awarded during 3000 Saudi Convention at WMU, Aug. 2013.
2. Recognized by Saudi Arabian Cultural Mission (SACM) as the advisor for over 300 Saudi students at LTU.
3. Recipient of the "Arab American of the Year in Education", May, 2009.
4. Nominated and listed in Marqui "Who's Who in Engineering", 2013.
5. Recognition of "Excellence in student advising", Awarded Plaque by the KSA Embassy on behalf of 200 Saudi students at LTU, Jan. 2008
6. Recipient of The Outstanding College of Engineering Faculty of the Year Award at LTU, 2004
7. Recipient of the "Lawrence Technological University Faculty of the Year" Award, 1997.
8. Recognition of Student Advisor Award, SME 1997
9. "Award of Excellence in Technical Programming", SME 1996
10. U of M "Original Conceptual Design" Faculty Enhancement Program in Manufacturing Systems, Dearborn, MI, 1991
11. SME, Certificate of Speaker Appreciation, "SME International Conference," Detroit, MI, 1989
12. "Leadership in Curricula Development and Creative Teaching" Award, Al-Fateh University, 1978.



## **LEADERSHIP ROLES**

- Member of Steering Committee of Light Innovation for Tomorrow (LFT), a Federally funded project (\$ 140 M) to develop the manufacturing of lightweight materials products, Coalition members include; university of Michigan, Ohio State and Lawrence Technological University, State of Tennessee, 2014-2018
- Member of the Steering Committee of Michigan Advanced Technician Training (MAT2), Currently developing a Technical Educational program for Community Colleges in Michigan. Coalition include: several German US-Based companies and Michigan Economic Development Corporation (MEDC) of state of Michigan OCC, MCC, WCCC, Delta College, Mott College and HFCC. 2012
- Assessor and Evaluator for MAT2 Coalition of community colleges, Macomb Community College, Auckland Community College, Wayne County Community College, Mott college and Delta College.
- Appointed by Governor of Michigan to serve for a 4-year term on the advisory board on the Arab American and Chaldean Affairs Council. Appointment ended 2014.
- Lead a team of US Universities graduate students and professors to the International Italian Machine Tool Industry Conference, Milano, Italy, July 2011.
- Founder and CEO of the following companies:
  - Manufacturing Engineering Solutions, Inc. 2000-2013, offering consulting services to Chrysler, Ford, Johnson Control, TRW and many others in lean Manufacturing systems, QMS, Automotive manufacturing and Quality control.
  - Global Training Services Corporation, 2008-2013, offering training and education services to several Tier I and Tier II suppliers in Six Sigma, Time Management, Safety in work place, Quality tools, Leadership Development, Supply Chain Management, Engineering Management and others
  - US Technical Group, 2010-2013, offering training and technical consulting services to International trading companies, such as China, Italy and Middle Eastern Countries.
- Served on the Board of Directors of the Arab American Chamber of Commerce 2002-2012,
- Served on the advisory board of the Arab Anti-Discrimination Committee, 2009