

Curriculum Vita

For

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ACADEMIC BACKGROUND

Ph.D., Industrial Engineering, University of Arkansas, 1976
Graduate Diploma, Production Engineering, Cairo University (Egypt), 1967
Post Graduate Diploma, Industrial Technology Education, AFPA, (France), 1970
B.Sc., Mechanical / Production Engineering, Cairo University (Egypt), 1963

PROFESSIONAL STATUS AND ORGANIZATIONS

Professional Engineer in the State of Florida (PE#0024451)
Fellow of the Institute of Industrial Engineers (IIE)
President, International Association for Management of Technology (IAMOT)
Member International Council of Systems Engineering (INCOSE)
Senior Member, Society of Manufacturing Engineering (SME)
Member, Institute of Electric and Electronic Engineers (IEEE)
Member, American Society for Engineering Education (ASEE)
Member Institute for Operations Research and the Management Sciences (INFORMS)
Member, Society for Quality Control (SQC)
Member, Society of Optical Sciences and Engineering
Past President, IIE Senior Chapter #104
Member, Alpha Pi Mu, the Industrial Engineering Honor Society
Listed in the American Men and Women of Science

EXPERIENCE

UNIVERSITY OF CENTRAL FLORIDA, Orlando, FL

Interim Chair Department of Industrial Engineering and Management Systems	2001 - 2002
Lockheed Martin Distinguished Professor	1997 - 2000
Professor	1989 - present
Executive Officer, Department of IEMS	1987 - 1989
Associate Professor	1981 - 1989
Assistant Professor	1976 - 1981

Professor in the Department of Industrial Engineering and Management Systems (IEMS) of the College of Engineering, University of Central Florida. Work involves developing and teaching various courses in Engineering at the undergraduate and graduate levels, developing proposals and conducting research, and providing services to the profession and the community.

Courses taught cover the following: Operations Research, Engineering Management, Statistical Analysis, Industrial Control, Logistics and Project Engineering, Software Engineering and Design, Manufacturing processes, Systems Engineering, Facilities Planning and Design, and Rapid Prototyping. Research activities include projects in Productivity and quality, Man-machine interaction, Energy systems, feasibility studies for industrial systems, information systems, software development, and advanced manufacturing processes. Projects amount to more than \$3.5M. Funding agencies include NASA-KSC, DOD, State of Florida, USAID, Siemens, FDOT, and other private industries. Administration activities as an executive officer and as an interim chair include advising students, class scheduling, and the department budgeting, monitoring, and control.

Service activities include serving as an officer in local and national professional societies, reviewing and editorial board of technical journals, conducting and chairing professional conferences, technical consulting and volunteering work to local organizations. Currently serving as the president of the International Association for Management of Technology (IAMOT).

AMERICAN UNIVERSITY IN CAIRO, Cairo, Egypt
Visiting Professor of Engineering 1999 - 2000

Activities include supervising graduate students, initiate research program, and establish a cooperative program between UCF and AUC.

KUWAIT INSTITUTE FOR SCIENTIFIC RESEARCH (KISR), Kuwait
Research Scientist 1983 - 1985

During a leave of absence from the University of Central Florida, joined the Department of Applied Systems at the Kuwait Institute for Scientific Research (KISR). Conducted basic and applied research in the areas of Industrial Engineering, Operations Research, and Computer Applications. Projects included applied research in statistical quality control, productivity enhancement in industrial plants, and introducing computers in the educational system. Projects totaled \$750,000 over two years.

UNIVERSITY OF ARKANSAS, Fayetteville, Arkansas
Graduate Assistant 1973 - 1976

Assisting in research work (statistical analysis) and teaching undergraduate courses in engineering graphics and computer programming while performing graduate studies at the University.

MORTON CORPORATION, Fayetteville, Arkansas
Systems Analyst/Programmer 1974 - 1975

(Part-time work while performing graduate studies at the University of Arkansas)

Work involved computer system developing/ programming for Business applications.

NCR CORPORATION, Middle East Regional Support Center, Cairo, Egypt
Software Specialist 1970 - 1973

The center supports NCR computer operations in the Arab countries, Cypress, Greece and Turkey. Work included trouble-shooting, systems analysis and software development, technical support, and teaching computer courses. Work was performed in Egypt, Iraq, Greece, Kuwait, and the united Arab Emeritus.

NASR BOILER AND PRESSURE VESSELS MANUFACTURING CO., Giza, Egypt
Manager, Production Control 1964 - 1970

Experience with NASR Boiler co. dated since the starting of the company. Listed below are job titles and responsibilities at various stages of employment:

Project Engineer (one year): performed the feasibility study of initiating the manufacturing facilities for boilers and pressure vessels in Egypt.

Industrial Engineer (2 year) during planning and implementation phase. Work involved site selection, plant layout design, equipment specification, selection, and installation.

Manufacturing Engineer (1 year) for the initial phase of production. Heavy sheet metal processes and production planning .

Manager, Production Control and Installation Department (2 years). Responsibilities included material requirement planning, production schedule, site preparation and field installation, and technical support to the sales department. I supervised 20 technical individuals at various levels.

SEMAF CORPORATION (Railroad Wagon Manufacturers), Cairo, Egypt
Mechanical/ Manufacturing Engineer 1963 - 1964

Engineer in training, supervising production schedules and manufacturing operations in the railroad wagon manufacturing and assembly departments (shop floor operations).

RESEARCH ACTIVITIES

Sponsored/ Funded Research:

MS in Intelligent Transportation Systems (NU-ITS) Nile University, Egypt	2008-2009 (PI) \$35,000
Florida Maintenance Rating Program (MRP) - Assessment and Enhancement - Phase 1 FL Department of Transportation	2007-08 (PI) \$80,000
Applying The Design Structured Matrix (DSM) for the design of Gas Turbines Siemens Corporation	2007 (PI) \$98,000
Traffic & Rural Intersection Monitoring - Data Collection and Analysis FL Department of Transportation	2007 (CO-PI) \$6,500
Design, Development, and Prototyping of reciprocating massager based on pressure inducing fiber Muscle elongation and reflexology Therasage, Inc. and UCF-ORC	2006-07 (PI) \$105,000
Assessing Merit of Varying Disaster Response Exercise Protocols in a High Fidelity Simulator to Evaluate/Enhance Response Readiness CATSS/ DOT	2005 (I) \$25,000
Traffic & Rural Intersection Monitoring with a Solar-based Infrared Wireless System- Development and Installation Phase FL Department of Transportation	2004-2005 (CO-PI) \$86,478
Traffic Flow Modeling, Simulation, and Highway Maintenance Management Center for Advanced Transportation Simulation Systems (CATSS)	2003 (PI) \$45,386
Flood Flotation National Collegiate Inventors and Innovators Alliance	2003 (PI) \$15,500
Design Construction Matrix (DSM) in construction design projects Center for Advanced Transportation Simulation Systems (CATSS) This project is being implemented with the TLC company hence it is referenced DSM at TLC.	2001-2002 (CO-PI) \$12,000.00
DSM in Transportation Network and Quality in the transportation Industry Center for Advanced Transportation Simulation Systems (CATSS)	2002-2002 (PI) \$50,000.00
Dynamic Transportation Network (DynaMIT & Dynasmart)- Lit. search & proposal development Center for Advanced Transportation Simulation Systems (CATSS) Student Support	2002 (PI) \$6,000.00
UCF Engineering Entrepreneurship Certificate Program National Collegiate Inventors and Innovators Alliance	2002-2003 \$18,000.00
Self Vacuum Storage Bag National Collegiate Inventors and Innovators Alliance	2002-2003 \$15,000.00
Rapid Prototyping of the International Space Station (ISS) On Orbit Obstructions Grid Mock-Ups (CO-PI) Funded by the Boeing Company Prototyping and Experimentation for ISS connections and on-orbit operations.	99-2000 \$50,000
Virtual Prototyping	99-2001(PI)

Funded through the Synthetic Environment Lab. (SEL is a UCF/ Lockheed-Martin initiative) Portable CMM, optical scanning and stereolithography are used for generating virtual prototypes for products and/or operations. Simulated scenarios to test performance. Applications include biomedical applications.	\$70,313
Roundabouts Design Modeling and Simulation Funded by Center for Advanced Transportation Systems Simulations (CATSS) Developing Simulation based software package for the design of (traffic) intersections in general, and the roundabouts in particular.	99-2000 (PI) \$15,000
Center for Space Education and Research - Stage I&II Funded by UCF- DSR (5 years project) CO-PI for researchers from UCF with interest in Space related research. I represent the IEMS department in this effort. Activities include R&D related to the space program.	97-2002 (CO-PI) \$5.0M
Advanced Materials Processing and Analysis Center (AMPAC) - Stage I&II Funded by UCF- DSR (5 years project) CO-PI for researchers from UCF with interest in advanced materials. I represent the IEMS department in this effort. Activities include conducting research and developing proposals to funding agencies.	97-2002 (CO-PI) \$5.0M
Stereolithographic Model of Titanium Turbine Blade Funded by Siemens-Westinghouse Electric Corporation Project Involves Research and Development of Prototype for new design of Turbine blade.	1997-98(CO-PI) \$10,000
Maintenance and Parts Fabrication Center in Support of the Egyptian Industry Funded by Supreme Council of Universities, Foreign Relations Coordination Unit (FRCU)/ USAID – Egypt. An international project aimed at using CAD/CAM, rapid prototyping, and Investment casting technologies in the fabrication of spare parts for the Egyptian industries. Project started December 1996.	1997-01 (PI) \$450,000
Prototyping of Complex Design Funded by several industries A number of R&D projects with a number of industries in Central Florida. Complex designs are prototyped and analysis is conducted for soft tooling.	1995-98 (PI) \$20,000
Investment Casting Using Stereolithography Funded by EXCEL 2000 of Florida co. and Universal Studios Industry partnership project to study the feasibility of using the stereolithography for investment casting of complex objects. The results proved promising in developing rapid tooling for rapid production.	1995-96 (PI) \$20,000
Rapid Prototyping and the DRPL at UCF Equipment Grant/ Gift from Tredegar Molded Products co. The grant includes a stereolithography machine, curing oven, and supporting software. The equipment was the seed for establishing the Design and Rapid Prototyping Laboratory (DRPL) at the COE-UCF.	1995 (PI) \$203,000
Mini Grant Proposal Development Funded by the Supreme Council of Universities Foreign Relations Coordination Unit (FRCU)/ USAID – Egypt.	1994 (CO-PI) \$8,000

A grant was awarded to develop a proposal for a mini-grant in the Linkage Program with Cairo University. A proposal aimed at using CAD/CAM technology in the fabrication of spare parts in selected Egyptian industries.

Variable Form Data Funded by NASA-KSC A process reengineering study aimed at selected space shuttle maintenance operations. Statistical techniques and data analysis are used for process improvement and to justify process changes.	1994-97 (CO-PI) \$130,000
Inter-facility Comparison, Internal and External Benchmarking Funded by NASA-KSC Applying benchmarking techniques for teams performance at KSC. The study proved the feasibility of using benchmarking for inter-facility and intra-facility comparisons.	1993 (CO-PI) \$55,076
Team Performance and Team Interaction in Shuttle Processing Operations Funded by NASA-KSC Productivity project aimed at studying group dynamics and factors affecting performance of maintenance tasks for space shuttle at KSC.	1993 (CO-PI) \$35,000
Task Performance Assessment Study Funded by NASA-KSC Statistical study analysis aimed at prioritizing tasks and identifying, and assessing opportunities for process improvement.	1992-94(CO-PI) \$100,000
Vigilance Effect in Performing Thermal tile Maintenance Tasks Funded by NASA-KSC Study the vigilance effect in inspecting the thermal tile of the space shuttle at KSC.	1992-94(CO-PI) \$90,000
Goniometric System for Measuring Human Spine and Body Joint Motion Funded by FHTIC and University of Miami. Testing and evaluating the Goniometric System for Measuring Human Spine and Body motion. University of Miami developed the system, and UCF IEMS department charted with system testing.	1992 (PI) \$4,500
Cavity Digitization for the Space Shuttle Tile Replacement Funded by FHTIC Develop digitization system and conduct experiments for tile cavity digitization. Study resulted in the design of a portable laser scanning system in cooperation with Lockheed company.	1991-92 (PI) \$92,169
Photo-mechanics in the Manufacturing and Repair of the Space Shuttle Thermal Protection System - Year 1 Funded by FHTIC Basic Research and experimentation for the development of photo-mechanics laser based system for shuttle tile cavity digitization and the automatic fabrication of a replacement tile. Year-1 objective is to assess the technology.	1990-91 (PI) \$92,169
Scheduling and Risk Assessment Funded by NASA-KSC Productivity study aimed at minimizing the risk associated with operational delays in the space shuttle maintenance tasks.	1990-91 (PI) \$50,000
Productivity Enhancement through Electronic Pre-fit - Feasibility study Funded by NASA-KSC A feasibility study aimed at using Cause and Effect analysis in reducing the rejects in manufacturing and installation of thermal tiles.	1991-93 (PI) \$29,000
Design and Development of Hypermedia based Information System Funded by NASA-KSC Technical feasibility study aimed at Design and development of Hypermedia based	1991-93 (PI) \$30,000

information system for selected KSC tasks.

Voice Data Entry for Data collection and Shuttle Maintenance Records Funded by NASA-KSC Technical feasibility study aimed at using voice recognition systems for data Collection in support of Shuttle operations.	1991-93 (PI) \$30,000
Design and Development of 3-D Non-contact cavity digitization device Funded by NASA-KSC Technical feasibility study aimed at using laser based reverse engineering devices and CAD/CAM technology in thermal tile manufacturing and cavity digitization.	1991-93 (PI) \$30,000
Design and Development of an Ergonomic Work-stand Funded by NASA-KSC Design and development of an ergonomic work-stand in support of TPS overhead operations.	1991-93 (PI) \$30,000
Productivity Improvement Techniques for Shuttle Maintenance Tasks Funded by NASA-KSC Applied IE techniques to a number of space shuttle maintenance operations. The objective is to study the use of hi-tech devices for process improvement.	1990-91 (PI) \$45,662
Space Shuttle Thermal Protection System (TPS) T- Opportunity Assessment Funded by NASA-KSC Pilot study aimed at identifying operations at KSC amiable for improvement through applied IE techniques and the introduction of high technology productivity tools. The TPS maintenance tasks were targeted for the study. Tasks identified and ranked with respect to its impact.	1989 (PI) \$42,265
Test Bank Development for Statistics Course Funded by COE/UCF Undergraduate enhancement Grant Educational Grant aimed at developing a computerized test bank in support of the undergraduate course: statistics for engineers. Package developed and used for course support.	1989-90 (PI) \$1,332
Testing and verification of Orthoranger III Funded by Florida High Technology and Industry Council (FHTIC) / University of Miami (U. of M.) Participation in the development of orthoranger III, an ergonomic device for measuring body joint movements when performing manual tasks. UCF role is in testing the final product.	1990-91 (PI) \$7,500
Manufacturing Productivity - Phase II Funded by FPE Continuation to Phase I, applying modern productivity enhancement techniques in manufacturing of wheel covers (Just-In-Time, Cellular Manufacturing.).	1988-89 (PI) \$15,100
Terrain Data Bases for Simulation and Training Funded by the Institute for Simulation and Training (IST) Building expertise in the field of re-configurable Terrain Data Base for training simulators.	1988 (PI) \$10,000
Manufacturing Productivity - Phase I Funded by Florida Production Engineering Co. (FPE) Developing manufacturing standards, and applying productivity techniques for FPE shop floor.	1987-88 (PI) \$38,449
Video-Image Data Base for TPDC Funded by the Defense Training and Performance Data Center (TPDC) Feasibility study aimed at using Geographical data base, as a re-configurable data base for training simulators.	1987-88 (PI) \$68,155

Task Reliability Model For Ground/Space Operations	1986-87 (PI)
Funded by the KISR	\$37,000
Development of a quantitative predictor for human errors for KSC ground Operations.	
Knowledge Based Task Analysis System for Ground Operations at KSC	1986-87 (PI)
Funded by UCF-EIES and NASA-KSC	\$45,000
Design system for measuring and enhancing task performance performed by technicians with respect to reliability and safety.	
* Introducing CAE to Education Systems of Kuwait	1984-85 (PI)
Funded by National Banking Organization of Kuwait	\$90,000
Pilot project involves introducing computers to four high schools in Kuwait. Courseware developed, workshops were conducted for teachers and students, and computer laboratories were set up in the targeted schools. The project is the first for introducing computer-aided education in Kuwait.	
* Computer-Based Integrated Quality Control System	1983-85 (PI)
Funded Kuwait Fund for the Advancement of Science (KFAS)	\$200,000
Study aimed at implementing statistical product and process quality measures for selected industries. The project resulted in the development of microcomputer package for statistical quality control, and the successful implementation of SPC in two plants.	
* Productivity Enhancement in the National Industries Complex (NIC)	1983-85 (PI)
Funded by NIC	\$204,000
Productivity study aimed developing work standards for direct and indirect labor and a comprehensive incentive system.	
* Arabic Computing Systems	1983-84 (I)
Funded by the Kuwait Institute for Scientific Research (KISR)	\$12,000
Assessing the state of microcomputer Arabization. Pilot design of Arabic microcomputer system. The study resulted in the initiation of a number of projects.	
* Computerization of the Industrial Bank of Kuwait (IBK)	1983-84 (PI)
Funded by IBK	\$10,500
Feasibility study for computerizing bank operations - project department. Technical specification for software and hardware, and the design and development databases. The study resulted in the installation of a computer system and the implementation of industrial projects software.	
Solar and Low-Energy Building Design Demonstration Project	1981-82 (I)
Funded by Florida Public Service Commission (PSC)	\$340,000
Assess energy saving measures and technologies in typical Florida residences. Work involves field testing and statistical modeling of energy consumption through the use of real-time microcomputer-based data collection systems. Project involves economic modeling, software development, and technology evaluation.	
Microcomputer Software Development in Support of Classroom Instruction	1982 (PI)
Funded by an Instructional Development Summer Grant (DSR), UCF.	\$4,355
Developing educational software in support of Production control course.	
Computerized Authoring System - Software Design	1981-83 (PI)
Funded by TAEG/NTEC - DOD	\$38,961
Developing of computer based authoring system for Military documents - training manuals.	
Computer aided Education (CAE)	1982-83 (PI)
Funded by the Apple Education Foundation	\$2,600

Developing CAE Software and designing an educational work station.

Regional Resources Constrained Model

Funded by The Engineering Industrial Experiment Station (EIES), UCF.
Study the analytical modeling of resource-constrained regions and develop proposal for funding agencies. Mathematical technique is used to determine optimum economic sector for investment (Input - output Model).

1982 (PI)
\$2,815

Analysis of Solar Window Film in Florida Buildings

Funded by the State of Florida Energy Office
Technical and economical study for installing reflective solar window films in State buildings.

1981-82 (PI)
\$26,000

Re-Engineering for the Blind

Funded by the Division of Blind Services
Re-engineering of jobs and work places to enhance performance for blinds in regular and complex tasks.

1980-82 (PI)
\$39,532

NATO Engagement System Interoperability

Funded by the Naval Training Systems Center (NTSC)
Design and Development of feedback information system for training assessment in simulated engagement exercises.

1979-80 (PI)
\$57,998

Energy Management Systems for State Buildings

Funded by the State of Florida Energy Office
Technical and economic feasibility studies for energy management systems.

1978-79 (I)
\$38,063

* Projects were conducted at the Kuwait Institute for Scientific Research (KISR).

PUBLICATIONS IN PROFESSIONAL JOURNALS/ CONFERENCES

Refereed Publications:

- Sami Spahi, Yasser A. Hosni, Optimizing the degree of Customization um in a Mass Customization System, International Journal of Mass Customization (IJMC), Accepted for Publication, August 2008.
- Sami Spahi, Yasser A. Hosni, Optimum Level of Customization for Mass Customization Systems MCPC 2007, October 8-12, 2007, Boston, USA
- Ola L. A. Harrysson, Yasser A. Hosni, and Jamal F. Nayfeh, Custom-designed orthopedic implants evaluated using finite element analysis of patient-specific computed tomography data: femoral-component case study, International Journal BMC Musculoskeletal Disorders 2007, 8:91doi:10.1186/1471-2474-8-91
- Yasser A. Hosni, Anthony Saka, Jack Selter, Nabeel Yousef, and Lucy C. Morse; Training Disaster Simulators – Technology that needs Management; The 16th International Conference on Management of Technology, May 13-17, 2007, Miami Beach, Florida, USA. Presentation and proceedings.
- Sami Spahi, Yasser Hosni, and, Amr Oloufa, Technology and its Impact on Mass Customization; The 16th International Conference on Management of Technology, May 13-17, 2007, Miami Beach, Florida, USA, Presentation and proceedings.
- Essam Radwan, Yasser A. Hosni; Intelligent transportation systems: Technological advances and its management, International Association for Management of Technology (IAMOT) 15th Annual Conference (IAMOT2006), May 22 – 26, 2006, Beijing, PR China. Presentation and Proceedings.
- William Pike, Yasser A. Hosni, Blended Training: Concept, Modeling, and Optimization International Association for Management of Technology (IAMOT) 13th Annual Conference (IAMOT2004), April 3 - 7, 2004, Washington, DC; Presentation and Proceedings
- Yasser A. Hosni, Michael Siemer, and Gamal Weheba, Rapid Tooling: Taxonomy and Technology Road Map, IERC2004, IIE Annual Research Conference, May 2004, Houston, Texas, May 15 - 19, 2004, Presentation and proceedings.
- Khaled Elsaid, Yasser Hosni, Doctors Perception to Biomodels: Experiment, Survey and Recommendations, IERC2004, IIE Annual Research Conference, May 2004, Houston, Texas, May 15 - 19, 2004, Presentation and paper proceedings.
- Amar Raja Thiraviam*, Yasser Hosni, Aesthetic Reverse Engineering, IEMW2004, Presentation and proceedings
- Khaled El-Said, Yasser Hosni, Howaida El-Said, Giles W. Vick, III, BIOMODELING OF CONGENITAL CARDIOVASCULAR MALFORMATIONS FROM MRI – LESSONS LEARNED, Proceedings: SME-RP Annual Meeting, May 12 - 15, 2003, Chicago, Illinois.
- Khaled El-Said and Yasser Hosni, Biomodeling: Technology with great Potential, proceedings: 12th Annual Conference for International Association for Management of Technology (IAMOT) (IAMOT2003), May 13 - 15, 2003, Nancy, France.
- Khaled El-Said, Sven-Erik Gustafsson, and Yasser A. Hosni, Rapid Prototyping Technology – Experiences in tooling and Biomodeling, Proceedings: IERC2003, IIE Annual Research Conference, May 18 - 20, 2003, Portland, Oregon.
- Magdy Helal and Yasser A. Hosni, A Tabu Search Approach for the Non-identical Parallel-Machines Scheduling Problem With Sequence-Dependent Setup Times, proceedings: IERC2003, IIE Annual Research Conference, May 18 - 20, 2003, Portland, Oregon.

- M. Fayez, P. Axelsson, A. Oloufa, Y. Hosni, DSM versus CPM: Issues for Planning Building Design & Construction Activities. Proceedings: 2003 Construction Research Congress, March 19-21, 2003, Honolulu, Hawaii.
- Ayman Wasfy, Yasser A. Hosni, Simulation Based Acquisition - Online Negotiations, Proceedings: CC&IE2002, CIE29, Computers and Industrial Engineering 29th conference, Oct31-Nov.2, 2002, Montreal, Canada.
- Ayman Wasfy, Yasser A. Hosni, Sell-side Online Negotiations Proceedings: CC&IE2002, CIE29, Computers and Industrial Engineering 29th conference, Oct31-Nov.2, 2002, Montreal, Canada.
- Yasser A. Hosni and Ola Harrysson, Design and Manufacturing of Customized Implants, Proceedings: IERC2002, IIE Annual Research Conference, May 2002, Orlando, FL.
- Mohamed Fayez, Pär Axelsson, Amr Oloufa, and Yasser Hosni, On the Optimization of Information Intensive Projects: Case of Construction Design, Proceedings: Fourth MIT-DSM conference, October 7-8, 2002, Cambridge, Massachusetts.
- Yasser A. Hosni, Contribution of CAD/CAM Technology to the Medical Field. Proceedings: The 7th International conference in Mechanical Design and Production (MDP7), Cairo, Egypt, February 15-17, 2000, Invited paper, Keynote Presentation and publication.
- Yasser A. Hosni, Alaa Radwan, Mohamed Gadalla, Sayed Metwalli, Reverse Engineering and Tool Path Generation from Data Cloud. Proceedings: Industry, Engineering, and Management Systems 2000 conference (IEMS2K), 7 pages, Cocoa Beach, Florida, USA, March 13-15, 2000, Presentation and publication.
- Y. Hosni, J. Nayfeh, and R. Sundaram, Investment Casting Using Stereolithography: The Case of Complex Objects, Rapid Prototyping, Vol. 5, No. 1, pp 1-5; Rapid Prototyping Association of the SME, First Quarter 1999 (Reprinted by invitation).
- Brian S. Fuehrlein, Yasser A. Hosni, Jamal F. Nayfeh, Rapid Prototyping and Stereolithography: Contributions to Human Engineering. Proceedings: 14th Annual International Ergonomics and Safety Conference '99. 9 pages, June 1999. Presentation and publication.
- Yasser Hosni, Jamal Nayfeh, and Ola Harrysson, Advances in the Medical Applications of Rapid Prototyping. Proceedings: 8th IIE Research Conference (Research 99), 6 Pages, IIE Press, 1999. Presentation and publication
- Yasser Hosni, Research Parks: Design Considerations. Proceedings: 8th International Conference on Management of Technology (IAMOT99), p417-425, Published by IAMOT, U. of M., Miami, FL. USA. Presentation and publication.
- Yasser A. Hosni, Rapid Prototyping and Medical Surgery - Advances Towards Custom Designed Implants. Proceedings: 8th International Conference on Management of Technology (IAMOT99), p427-437. Published by IAMOT, U. of M, Miami, FL. USA. Presentation and publication.
- Ayman Wasfy, Y. Hosni, T. Blackmon, and S. Nagvekar, Dealing With Imprecision in Object-Oriented Systems Analysis: An Enterprise Simulation Approach. Proceedings: 8th International Conference on Management of Technology (IAMOT99), p409-416, Published by IAMOT, U. of M., Miami, FL. USA. Presentation and publication.
- Wasfy A.M., and Y. Hosni,; Two -Party Negotiation Modeling: An Integrated Fuzzy Logic Approach”, Journal of Group Decision and Negotiation , No. 7: 491-518; Kluwer Academic Publishers, Norwell, MA, 1998.
- Yasser Hosni, Ola Harrysson, Reverse Engineering of Complex Objects - A comparative Study. Proceedings: 7th Industrial Engineering Research Conference (IERC), 6 pages, IIE Press, 1998. Presentation and publication.

- Y. Hosni, Experimentation on the use of Rapid Prototyping in the Medical Field. Proceedings: 23rd International Conference on Computers and Industrial Engineering, Chicago, Illinois, March 29 - April 1, 1998. Presentation and publication.
- Hyun-Joon Kim, and Yasser A. Hosni; Manufacturing Lot-Sizing under MRPII Environment: An Improved Analytical Model & Heuristic Procedure, Journal of Computers and Industrial Engineering, Vol. 15, Nos. 1-4, pp. 423-426; Elsevier Science Ltd. 1998.
- Y. Hosni, A. E. Radwan, and S. M. Metwalli, Reverse Engineering in support of Maintenance Industry. Proceedings: 23rd International Conference on Computers and Industrial Engineering, Chicago, Illinois, March 29 - April 1, 1998. Presentation and publication.
- M. Siemer, J. Nayfeh, Y. Hosni, and Werlink, R., Design and Optimization of a Turbine Driven Brush Cleaner. Proceedings: 22nd International Conference on Computers and Industrial Engineering (ICC&IE'98), p491-494. Presentation and publication.
- A. M. Wasfy, and Y. Hosni; Fuzzy Logic Based Simulation of Venture Capital Acquisition for a High-Technology Startup. Proceedings: 22nd International Conference on Computers and Industrial Engineering (ICC&IE'98), p104-108. Presentation and publication.
- Hyun-Joon Kim, and Y. Hosni; Lot Sizing under MRP II Environment. Proceedings: 22nd International Conference on Computers and Industrial Engineering (ICC&IE'98), Cairo, Egypt, Dec. 20-22, 97, Presentation and publication.
- Y. Hosni; Rapid Prototyping in Support of Medical Surgery. Proceedings: 22nd International Conference on Computers and Industrial Engineering (ICC&IE'98), Cairo, Egypt, Dec. 20-22, 97, p615-618. Presentation and publication.
- Y. Hosni, J. Nayfeh, and R. Sundaram; Investment Casting using Stereolithography: Case of Complex Objects. Proceedings: 20th International Conference on Computers and Industrial Engineering (ICC&IE'96), Kyongju, Korea, October 6-9, 1996. Presentation and publication.
- Y. Hosni, J. Nayfeh, and Sundaram R; Investment Casting Using Stereolithography: Case of Complex Objects. Proceedings: 6th Industrial Engineering Research Conference (IERC), 6 pages, May 17-18, 1997, Miami Beach, FL. IIE Press, 1997. Presentation and publication.
- Wasfy A. M., and Y. Hosni; Simulation of Multiple Issues Two-Party Negotiations Using NEGOTIATE. Proceedings: 6th Industrial Engineering Research Conference (IERC), 6 pages, May 17-18, 1997, Miami Beach, FL. IIE Press, 1997. Presentation and publication.
- Kim, H., and Y. Hosni, Analytical Modeling in Manufacturing Environment: Effect of Concurrent Processing on the MRP II. Proceedings: 6th Industrial Engineering Research (IERC), 6 pages, May 17-18, 1997, Miami Beach, FL. IIE Press, 1997. Presentation and publication.
- Kim, H. and Y. Hosni, MRP with Concurrent Engineering: Analytical Modeling and Sensitivity Analysis. Proceedings: 20th International Conference on Computers and Industrial Engineering (ICC&IE'96), p995-998, Secretariat, ICC&IE '96, Dept. Of IE, Pusan National University, Pusan 609-735, Korea, October 1996. Presentation and publication.
- Wasfy and Y. Hosni; Object Oriented Modeling of Two-Party Negotiation. Proceedings: 19th International Conference on Computers and Industrial Engineering, Miami, Florida, March 4-6, 1996. Presentation and publication.
- A. M. Wasfy, Y. Hosni, and R. Safford; Fuzzy Logic in the Negotiation Process. Proceedings: the 1996 International Fuzzy Systems and Intelligent Control Conference, p203-212, Institute of Fuzzy Systems and Intelligent Control Inc., Louisville, KY. 1996. Presentation and publication.
- R. Safford, T. Barth, and Y. Hosni; Process Improvement for the Space Shuttle Ground Operations. Proceedings: 6th International Mechanical Design and Production Conference (MDP6), p571-578, Cairo University Press, Cairo, Egypt 1996. Presentation and publication.

- Y. Hosni, and R. Sundaram, Rapid Prototyping and Tooling: A survey and Applications, Selected article from the 6th International MDP6 Cairo University Conference in the book: Current Advances in Mechanical Design and Production, p511-520, Pergamon, Elsevier Science Inc. NY. 1996. Presentation and publication.
- Y. Hosni, R. Safford, T. Barth, D. Osborne, and T. Stomayor; Expert System for Quality assessment in Support of Space Shuttle Operations. Proceedings: 18th ICC&IE 95, 7 pages, China Machine Press (CMP), 1995. Presentation and publication.
- Y. Hosni, R. Safford, T. Barth, D. Osborne, and T. Stomayor; Knowledge Based Quality System in Support of Space Shuttle Operations at KSC. Proceedings: 8th Florida Artificial Intelligence Research Symposium, Melbourne, Fl. 1995, 5 pages, p345-49, 1995 (FLAIRS'95), Florida AI Research Society, ISBN 0-9620-1737-X/95/345, 1995. Presentation and publication.
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- Y. Hosni, J. Hwang, L. Ferreira; Non-contact Digitization System for Die-Manufacturing. Proceedings: 13th Conference on Computers and IE, Orlando, Fl. March 1991. Presentation and publication.
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- R. Phillips, Y. Hosni; Indirect Fire Simulations Using Remotely Piloted Helicopter. Proceedings: NTEC Interservice/ Industry Training Equipment Conference, Orlando, FL, November 1979. Presentation and publication.
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Other Presentations and Publications:

- Yasser A. Hosni, Management of Technology: Contemporary Educational Programs, International Association for Management of Technology (IAMOT) 13th Annual Conference (IAMOT2004), April 3 - 7, 2004, Washington, DC. Book of abstracts, Presentation and Abstract.
- Yasser A. Hosni, Technology Standards: Feasibility Study, International Association for Management of Technology (IAMOT) 13th Annual Conference (IAMOT2004), April 3 - 7, 2004, Washington, DC. Book of abstracts , Presentation and Abstract
- Khaled El-Said, Yasser Hosni, Biomodeling, Rapid prototyping for Medical Treatment: A Feasibility Study, American Society for Engineering Education (ASEE- SouthEast Conference), April 06 - 07, 2003, Mercer, Georgia.
- Khaled El-Said, Howaida El-Said, Yasser Hosni, Raja Muthupillai, Ricardo H. Pignatelli, Taylor Chung, Giles W. Vick, III, Computer Stereolithography of Congenital Aortic Malformations Imaged by Magnetic Resonance, Society of Cardiology and Magnetic Resonance (SCMR) Annual Meeting, SCMR2003, Feb 07 - 09, 2003, Orlando, Florida, Abstract and Poster presentation
- Khaled El-Said, Howaida El-Said, Yasser Hosni, Raja Muthupillai, Ricardo H. Pignatelli, Taylor Chung, Giles W. Vick, III, Rapid Prototype Modeling of Congenital Cardiovascular Malformations from Magnetic Resonance Images, American College of Cardiology (ACC) annual Meeting (ACC2003), March 30 - April 2, 2003, Chicago, Illinois, Abstract and Poster Presentation.
- Ayman Wasfy, Yasser Hosni, A Comprehensive Virtual Negotiation Framework Incorporating Natural Language and Fuzzy Logic, INFORMS 2002 Annual Meeting, November 17-20, 2002, San Jose, CA, , Abstract and Presentation
- Mohamed Fayez, Pär Axelsson, Amr Oloufa, and Yasser Hosni, Information Intensive Projects: Planning and optimizing using the Design Structure Matrix (DSM), IERC2003, IIE Annual Research Conference, May 18 - 20, 2003, Portland, Oregon, Presentation and Extended Abstract proceedings.
- Mohamed S. Fayez, Pär M. Axelsson, Amr Oloufa, and Yasser A. Hosni, CPM vs. DSM: A Comparative Study, ISEC 2002, June 13-14, 2002, Cocoa Beach, FL.
- Yasser A. Hosni, Rapid Prototyping and Medical Surgery: Advances Towards Custom Designed Implants, Opportunities for Physicians in Egypt. Presentation to the Egyptian Club in Washington, DC, June 12, 2001, The Egyptian Embassy, Washington DC. Invited presentation.
- Yasser A. Hosni, Innovations in Education – Opportunities and Challenges Facing Developing Nations, Presentation to the “Global Forum on Management of Technology”, Organized by the United Nations Industrial Development Organization (UNIDO), May 29-30, 2001, UNIDO headquarters, Vienna, Austria. Invited Presentation.
- Yasser A. Hosni, and Hassan El-Laithy, Technology Based ISO Certification - Case of Service Organization in a Developing Country, Book of Abstracts for the 8th International Conference on Management of Technology (IAMOT2000), Miami, Florida, February 22-24, 2000. Presentation.
- Y. Hosni, From Reverse Engineering to Layered Manufacturing, 7th Industrial Engineering Research Conference, Banff, Alberta, Canada, May 9-10,1998. Invited presentation.
- Y. Hosni, and J. Nayfeh; First Course in Rapid Prototyping: The UCF Experience, 21st International Conference on Computers and Industrial Engineering, San Juan, Puerto Rico, March 9-12, 1997. Presentation.
- Y. Hosni, Investment Casting Using Rapid Prototyping: The UCF Experience, IEMS Research Colloquium, UCF, Feb. 7, 1997. Presentation.

- Y. Hosni, and A. A. Elimam; The Before and After of ISO 9000 Certification in Developing Countries, the 22nd International Conference on Computers and Industrial Engineering (ICC&IE'98), Cairo, Egypt, Dec. 20-22, 97. Presentation.
- Y. Hosni, and F. Moslehy; Optimum Design of 3-D Structures Using Photo-Elasticity and Stereolithographic Models, the 22nd International Conference on Computers and Industrial Engineering (ICC&IE'98), Cairo, Egypt, Dec. 20-22, 97. Presentation.
- D. Hosni, and Y. Hosni; Infrastructure and the Transfer of Technology to Developing Countries, 5th International Association for Management of Technology (IAMOT) Conference, Miami, Florida, Feb. 27- March 1, 1996. Presentation.
- Y. Hosni, A. Radwan, and S. Metwalli, Rapid prototyping of Designs via Remote Communications, presentation to the 19th International Conference on Computers and Industrial Engineering, Miami, Florida, March 4-6, 1996. Presentation.
- Y. Hosni, Conflict Resolution - Computer Simulation Framework, TIMS XXXII conference, 1994 Annual conference for the Institute of Management Sciences, Anchorage, Alaska, June 1994. Presentation.
- W. Swart, T. Barth, R. Safford, and Y. Hosni; SPC/ Capability Analysis in Orbiter Processing at KSC, Autumn 1993 Phoenix ORSA/TIMS meeting, Phoenix, Az., Oct. 31 - Nov. 3, 1993. Presentation.
- Y. Hosni, ISO 9000, What is New ?; Autumn 1993 Phoenix ORSA/TIMS meeting, Phoenix, Az, Oct. 31 - Nov. 3, 1993. Presentation.
- Y. Hosni, D. Kaber; Ergonomic Semi-Reclined Work Seat for Overhead Operations - Product Licensing Opportunity, G.A.T.E.R Newsletter, FHTIC Inc., March 1992. Publication.
- Y. Hosni, A. Okraski; Information Delivery Through Hypermedia, Research and Technology 1992 Annual Report, NASA Technical Memorandum 107555, John F. Kennedy Space Center, 1992. Publication.
- Y. Hosni, D. Kaber; Ergonomic Semi-Reclined Work Seat for Overhead Operations, Research and Technology 1992 Annual Report, NASA Technical Memorandum 107555, John F. Kennedy Space Center, 1992. Publication.
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- Y. Hosni; Value of Information in Simultaneous Engineering Environment, 1992 Joint Meeting of TIMS/ORSA, Orlando, Florida, April 1992. Presentation.
- Y. Hosni, A. Radwan; Logistics Engineering - CALS Effect, 1992 Joint Meeting of TIMS/ORSA, Orlando, Florida, April 1992. Presentation.
- Y. Hosni, A. Okraski; GUIDE Used to Develop NASA Space Shuttle Hypermedia Information Center, Guidelines - OWEL International, Vol. II, Issue 2, Feb. 1992. Publication.
- Y. Hosni, R. Safford, T. Barth; Managing Cooperative R&D Projects Between University and Industry, 3rd International Conference on Management of Technology, Miami, Florida, Feb. 1992. Presentation.
- Y. Hosni, W. Swart, T. Barth; Industrial Engineering Techniques in support of Space Shuttle Operations, The 5th Mechanical Design and Production Conference (MDP5), Cairo University, Cairo, Egypt, December 1991. Presentation.

- Y. Hosni, D. Hosni; New Development in Simulating Labor Negotiation, ORSA/TIMS Joint National Meeting, Anaheim, CA, October 1991. Presentation.
- Y. Hosni; Geographical Data Bases; A Survey, The Symposium on Geographical Data Bases, organized by Institute for Simulation and Training, Defense Training and performance Data Center, and the University of Central Florida, Orlando, Florida, July 1988. Presentation and Thesis publication.
- Y. Hosni; Software Projects - Effect of Engineering Techniques on Its Development, in Arabic. Special issue on Computer engineering of the magazine: The Engineers, Kuwait Association for Engineers, No. 14, Sept. 1985. Publication.
- Y. Hosni; Introducing Arabic Language to the Micros - Industrial Applications, Computers and Industrial Engineering Conference, March 1985, Orlando, FL. Presentation.
- J. Moor, D. Webster, Y. Hosni; CAN CAD/CAM?, Facilities Design Newsletter, IIE publication, 1983. Publication.
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BOOK CHAPTERS AND COMPUTER PACKAGES PUBLISHED

- Laure Morrell-Gumaraes, Tarek Khalil, and Yasser Hosni, Editors; Management of Technology, Key Success Factors for Innovation and Sustainable Development, 2005 Elsevier Ltd. ISBN 0-08-044649-3.
- Y. Hosni, and Tarek Khalil, Editors; Management of Technology: Internet Economy: Opportunities and Challenges for Develop and Developing Region of the World, 2004 Elsevier Ltd. ISBN: 0-08-044214-5
- Y. Hosni, and R. Sundaram, Rapid Prototyping and Tooling: A survey and Applications, Selected article from the 6th International MDP Cairo University Conference in the book: Current Advances in Mechanical Design and Production IV, Pergamon, Elsevier Science Inc. NY. pp 511-520, 1996.
- Y. Hosni, Rapid Prototyping and Reverse Engineering, 11 pages, Tutorial book/ notes, for a Pre-conference Seminar. Pergamon press, 1994
- A. Elshennawy, Y. Hosni; Justification Methods for Computer Integrated Manufacturing Systems, Published in the Book : Planning and Control Issues in Automated Manufacturing, Elsevier, Oxford, NY, PP 40-61, 1990.
- Y. Hosni; Microcomputers: Technology Transfer, published in the book: Technology Management I, Interscience Enterprises Ltd., Geneva, Switzerland 1988, Chapter 6, 8 pages.
- Y. Hosni, Arabic Ready-made Educational Software-Authoring Subroutines, 131 pages + 21 computer programs, Publisher: Al-Alamiah Co. Kuwait, 1985.
- Y. Hosni, Development of Educational Software (Arabic), 204 pages, Publisher: Al-Alamiah Co. Kuwait, 1985.
- Y. Hosni, Elsayasi, Haggag; Introduction to Computers (Arabic), Adopted as the text book for high schools in Kuwait, Ministry of Education, Kuwait, 1985, 3 parts (student, Lab, and Teacher), 211 pages.
- Y. Hosni; Time Standards Using Micros, Published article in the Book: Developing Work Standards, by W.S. Oakes, Published by Industrial Engineering and Management Press, 1985.
- Y. Hosni; Time Standards, Published as an article in the book: Computerized Work Measurement, Industrial Engineering and Management Press, 1984.
- G. Whitehouse and Y. Hosni Co-authored the IIE Micro-software Series for Industrial Engineering Applications. Other IEMS Faculty and students participated as well. Each package is made up of 4 computer programs fully documented: theory, applications, references, and source code; along with computer disk/tape. The packages are for IBM, and Apple Microcomputers. The IEMS Department at UCF pioneered the development of IE microsoftware. UCF-IEMS became known for pioneering of the technology.
Publisher: Institute for Industrial Engineers (IIE). The following titles have been released since 1981:

1. Economic Analysis (2nd)	(1981)	79 pages + disk
2. Production Control	(1981)	61 pages + disk
3. Forecasting Techniques	(1981)	79 pages + disk
4. Operations Research	(1982)	83 pages + disk
5. Project Management	(1983)	80 pages + disk
6. Work Measurement	(1982)	61 pages + disk
7. Plant layout	(1985)	165 pages + disk
8. Statistical Quality Control	(1986)	90 pages + disk

TECHNICAL REPORTS (Partial list)

The following Technical Reports resulted from research work from 1990- 2000. Y. Hosni (PI) and the research team authored the reports:

Maintenance and Parts Fabrication Center in Support of the Egyptian Industry, Final Report to FRCU, December 2000.

Center for Rapid Tooling - Pattern Making, Feasibility Study, submitted to NASR Castings Co., August 1998.

Maintenance and Parts Fabrication Center in Support of the Egyptian Industry, Annual interim Report, Technical Report to FRCU, July 1998.

Maintenance and Parts Fabrication Center in Support of the Egyptian Industry, interim Report, Technical Report to FRCU, December 1997.

Investment Casting of Complex Objects, Technical Report, submitted to EXCEL2000

Variable Form Data – Final Reports, Technical Report to NASA-KSC, 1995, 1996

Team Performance and Team Interaction in Shuttle Processing, Technical Report to NASA-KSC, 1993

Hypermedia in Support of KSC operations - Procedure and Prototyping, Final Report to NASA-KSC, COE/UCF, 1990, 1992.

Voice Data Entry for P-310 - Training and Implementation Strategies, Final Report to NASA-KSC, COE/UCF, 1990.

Cavity Digitization Systems, Technical Reports to NASA-KSC, COE/UCF, 1990, 1991, 1992.

Work-stand Design for Overhead Operations, Technical Report(s) to NASA- KSC, COE/UCF, 1990, 91, 92.

LIST OF COURSES TAUGHT:

Course #	Level	Course Title
ESI 4612	(U)	Operations Research
EGN 3613	(U)	Engineering Economic Analysis
EGN 4625	(U)	Engineering Administration
EGN 5858	(U/G)	Rapid Prototyping
STA 3032	(U)	Probability and Statistics For Engineers
EIN 4364	(U)	Industrial Facility Planning and Design
EIN 3315	(U)	Work Measurement & Design
EIN 4116	(U)	Industrial Information Systems
EIN 4333	(U)	Industrial Control
EIN 5117	(G)	Management Information Systems
EIN 5383	(U/G)	Network Analysis
EIN 5140	(U/G)	Project Engineering
EIN 6908	(G)	Independent Studies - Graduate Level
ESI 5316	(G)	Operations Research
ESI 6336	(G)	Queuing Systems
ESI 6358	(G)	Decision Analysis
ESI 6427	(G)	Mathematical Programming I
ESI 6437	(G)	Mathematical Programming II
ESI 6551	(G)	System Engineering
ECM 5505	(G)	Microcomputers Control Systems
ECM 4804	(U/G)	Engineering Software Design
ECM 5806	(G)	Software Engineering
EIN 5381	(G)	Logistics Engineering
EIN 5388	(G)	Forecasting
STA 5156	(G)	Probability and Statistics for Engineers

U: Undergraduate

G: Graduate

PH.D. DISSERTATION SUPERVISION (Last 10 years)

Committee Chair/ Advisor

I. Completed:

1. Dr. Hyun-Joon Kim, IEMS, Manufacturing Resource Planning with concurrent Processing. Graduated Sp. 1997.
2. Dr. Ayman Wasfy, IEMS, Modeling and Real-time Simulation of Two Party Negotiations: An Integrated Fuzzy Logic Approach. Graduated Sum. 1996.
3. Dr. Gamal Weheba, IEMS, Economic Strategies for Continuous Quality Improvement in Manufacturing Systems. Graduated 1996
4. Dr. Gina Humphrey Baker, IEMS, Reliability of Space System: A Multi-Element Integrated Approach. Graduated Fall 2000.
5. Dr. Labiech Ferreira IEMS, Crash Quality - A new approach for Quality Improvement. Graduated Fall 2000.
6. Dr. Ola Harrysson, IEMS, Use of Rapid Prototyping Technology for Medical Implants, Graduated 2003.
7. Dr. Sami Spahi, IEMS, Optimum Level of Customization in Mass Customization Systems, Graduated Summer 2008.

Committee Member

1. Steven Bruce, ROAM: Resource Offering Agency and Mobility for Efficient Network and Sys. Mangt., Computer Engineering, Graduated, Sp02
2. Donald D. Jacobvitz, Using Micro-simulation to Develop an Incident Management Plan, Civil and Environmental Engineering, Graduated, Su2001
3. Dr. Felix A. Soto, ECE, Electronic Design Techniques to Enhance NASA's Payload Ground Support Transfer Operations. Graduated Fall 2000.
4. Mohamed Y. Alqaradawi, MMAE, Structural damage diagnosis using stereolithography, modal analysis and FEA, Graduated Fall 2000.
5. Steve Bruce, ECE, Mobile agent tools for efficient network management with performance monitoring and troubleshooting case studies. In progress.
6. Dr. Rhonda Freeman, IEMS, Intelligent Agents: Performance measure. Graduated Fall 1998.
7. Ashraf Ishak, MMAE, Topic: TBD, in the area of reverse engineering and rapid prototyping. In progress.
8. Dr. Saleh Akour, MMAE, Defense Hole Optimization by Combining Stereolithography, Photoelasticity, Image Processing, and FEA. Graduated Summer 2000.
9. Dr. Maged M. Malek, IEMS, Constructability Assessment using Fuzzy Logic Modeling. Graduated Sp. 1996.
10. Dr. John S. Seybold, ECE, Improved P code Acquisition/ Reacquisition Techniques for GPS Navigation, Graduated Sum. 1995.
11. Dr. Wellington Figueiredo, CEE, Environmental Evaluation of a proposed Highway Section using GIS and E.S., Graduated Fall 1995.
12. Dr. Andrew E. Jackson, IEMS, Analytical Desegregation - Process Development Supporting Competitive Benchmarking Initiatives, Graduated, Sp. 1995.
13. Dr. Atef Garib, CEE, Macroscopic Modeling for incident delays on freeways, Graduated, Sp. 1995.
14. Dr. Paul T. Gremillion, CEE, Separation of Stream-flow Components in the Econlockhatchee river system using environmental stable Isotope tracers, Graduated, Sp. 1994.

MS. THESIS (Last 10 years)

Committee Chair/ Advisor

I. Completed:

1. Khaled Elsaid, Biomodeling of Congenital cardiovascular Structures: Feasibility and Assessment, MSIE Thesis, Graduated Sp.05
2. Amar Raja Thiraviam, Versatility of Portable CMM, MSIE, Graduated Fall04.
3. Frank Hodum, IEMS-UCF, Thesis: Software Reliability: Modeling and assessment in the development cycle, Graduated Fall 2000.
4. Dina Hegazy, ENGR-AUC, Thesis: Supply Chain Management Performance: Modeling and application in Manufacturing environment, Graduated Sp. 2000
5. Tarek Samad, ENGR-AUC, Thesis: Progress Monitoring of Industrial Projects with Cost Consideration, Graduated Sp. 2000
6. Mohamed Seif, ENGR-AUC, Thesis: Medical Modeling: Stereolithographic Modeling for Hip Replacement, Graduated Sp. 2000.
7. Adam Weaver, MMAE-UCF, Thesis: Gimbal Design Optimization, Graduated Sp. 1999. (Co-Chair with Dr. J. Nayfeh)
8. Edward L. Moore, MMAE-UCF, Thesis: Development of a system for Reverse Engineering from Portable CMM to Parametric Feature-Based Solid Modeling, Graduated Sp. 1998. (Co-Chair with Dr. J. Nayfeh)
9. Zadyah Mohamed, MMAE-UCF, Thesis: Knee Design from CT Scan using Rapid Prototyping, Graduated Fall 1998. (Co-Chair with Dr. J. Nayfeh)
10. Michael Siemer, MMAE-UCF, Thesis: Design of Turbo blades using CAD, FEM, and Rapid Prototyping, Graduated Fall 1998. (Co-Chair with Dr. J. Nayfeh)
11. Ravi Sundaram, IEMS-UCF, Thesis: Stereolithography in Investment Casting: Case of Complex Objects. Graduated Fall 1996.
12. Ramesh Burjanroppa, IEMS-UCF, Thesis: Reverse Engineering - 3D Optical Scanning Laboratory Setup, Graduated Fall 1994.
13. Habib Sarhan, IEMS-UCF, Thesis: The effect of Employee's perception of Management Philosophies - Case of TQM in Restaurants, Graduated Fall 1994.
14. Nagapan Letchumanan, IEMS-UCF, Research Report and Oral Exam: Software development for Reverse Engineering Apparatus, Graduated Sp. 1994.
15. David Kaber, IEMS-UCF, Thesis: Human Performance for overhead operations using ergonomic work stand - Design and Experimental analysis, Graduated Sp. 1993
16. Labiche Ferreira, IEMS-UCF, Thesis: Surface Mapping and Automatic Tool Path Generation. Graduated Sp. 1991
17. Andrew Okraski, IEMS-UCF, Research Report: Hypermedia in support of ground operations for the Space Shuttle, Graduated Fall 1991.
18. Kenneth Cole, IEMS-UCF, Research Report: Experimental Analysis for wireless voice recognition system, Graduated Fall 1991.
19. James Lichtenthal, IEMS-UCF, Research Report: Statistical Sampling with constant probability of product assurance with predetermined AQL. Graduated Fall 1991.
20. Tamim Hamid, IEMS-UCF, Research Report: Voice Recognition Systems - Application at KSC, Graduated Sum, 1991.
21. Robert A. Mohs, IEMS-UCF, Thesis: Risk Assessment and Risk Management for High Technology Product Development, Graduated Sum 1990.
22. Elizabeth C. Cook, IEMS-UCF, Thesis: Analysis of the Beta Distribution Assumption in the PERT Algorithm, Graduated Fall 1990.
23. Steven Mason, IEMS-UCF, Thesis: Knowledge Worker Productivity Enhancement - Issues and Techniques for Creative Professionals, Graduated Fall 90.

Committee Member

1. Comparative analysis between STIR welding and automatic riveting in the assembly of aircrafts structures, MSIE Thesis, Serge N. Sala-Diakanda, Completed Sp.03 ----- C. Member .
2. DSM- Based Project Planning, MSIE - Research Report, Pär M. Axelsson, Completed Sp.03 ----- C. Member/ Chair for the R. report

3. An Approach for Process Alignment, Bonnie McIlrath, EM Thesis, Completed Sum02 ----- C. Member
4. Committee member for the MSIE Exit Exam for 4 students - 3 graduated Sp. 03
5. Joshua M. Lenzini, IEMS-UCF, Thesis: Critical Success Factors for Supply Chain Management of a Space Port, Graduated Sp. 2001.
6. Bonnie McIlrath, IEMS-UCF, An Approach for Process Alignment, In Progress.
7. David Kennedy, IEMS-UCF, Thesis: Human Factors Considerations in the Development of Instructional Materials Applied to Payload Processing Tasks at KSC Graduated Fall 1993.

SUMMARY OF SERVICE ACTIVITIES:

Committee Service (last five years):

Committee	Duration
<u>University Committees:</u>	
• Faculty Senate	4 yr. (Vice Chair, 2 yr.)
• Admission and Standards	5 yr.
• Graduate Council	3 yr.
• University Personnel / Tenure & Promotion	4 yr. (Chair 1 yr.)
• Academic Standards subcommittee - UCF Senate	2 yr.
• UCF Senate Steering subcommittee	2 yr.
• Strategic Planning	1 yr.
• Accountability	3 yr.
<u>College of Engineering Committees:</u>	
• CECS Chair's Council (Interim Chair IEMS Dept)	1 yr.
• Honors and Awards	1 yr.
• Admission and Standards	1 yr.
• Dean Search	2 yr.
• Associate Dean Search	1 yr.
• Undergraduate Program	2 yr.
• Personnel (T&P)	4 yr.
• Research	5 yr.
• Teaching Incentive Program (TIP)	2 yr.
• Performance Excellence Program (PEP)	1 yr.
• IEMS Chair Search	2 yr.
<u>Departmental Committees:</u>	
• Faculty Search	2 yr.
• Course Review	1 yr. (Chair)
• Qualifying Exam	5 yr.
• Research	1 yr. (Chair)
• Executive officer	2 yr.
• Personnel / T&P	2yr. (Chair)
• IEMS Undergraduate Program	2yr.
• Human Engineering Program	1yr.
• Manufacturing Engineering Program	1yr.
• Ph.D. Qualifying Exam	5yr.
• Ph.D. Candidacy Exam	5yr.
• Oral/ Exit Exam: Engineering Management	4yr.
• Oral/ Exit Exam: Manufacturing Systems	1 yr.
• Oral/ Exit Exam: Operations Research	1yr.
• Oral/ Exit Exam: Quality Engineering	1yr.
• Space and Laboratories	1yr. (Chair)
<u>Others:</u>	
• DSR In-house research proposal evaluation	5 yr.
• COE Ad Hoc Committee(s)	
• Flow of student into COE program	1yr. (Chair)
• Security Committee	1yr.

Public/ Professional Services (Partial list):

- Officer and Past president IIE Chapter #104 - Central Florida
- Associate Editor for the Journal: Computers and Industrial Engineering
- Editor for the Proceedings of the 1994 Annual International Conference on Industry, Engineering and Management Systems (IEMS'94), refereed.
- Editor for the Proceedings of the International Conference on Management of Technology, refereed.
- Program Chair for IAMOT Annual Conferences (Yrs. 2002, 2003, 2004)
- Reviewer for the following Journals:
 - Computers and IE
 - Simulation
 - Flexible Automation and Information Management
 - Production and Inventory Control
 - Manufacturing Systems
- Reviewer/ officer for the following Conferences:
 - Annual Industrial Engineering Research Conference
 - Annual International Conference on Computers & IE
 - Annual FAIM conference
 - Annual Management of Technology conference
 - Bi-Annual Productivity conference (Miami)
- Contributing Editor Industrial Software Section - Industrial Engineering.
- Reviewer for Technical Proposal
 - NSF K* program
 - Kuwait University Research Grant Administration
 - Division of Sponsored Research - UCF
 - University of Nebraska

Program/ Conference Chair for the following:

- International Association on Management of Technology (IAMOT) Conference(s)
- International Conference for Computers and Industrial Engineering (ICC&IE)
- Speaker/Conductor for 5 different seminars in the Field of Industrial Engineering and Computer Applications (USA/Kuwait/Egypt).
- Chairing the following interest groups:
 - Rapid Prototyping Technology - Industrial Applications.
 - Rapid Prototyping Technology - Bio-Medical Applications (Biomodeling)
- Faculty advisor to the student organizations (IIE, 1979-1981, Biomedical Engineering, 1998-2001)
- Volunteering host for international visitors arranged by Mid-Florida Council For International Visitors.
- Heading Committee for introducing Computers in Education - Kuwait.
- Frequent consultant to a number of companies and international organizations.
- Participant in over 15 professional meetings conducted by professional organizations in the last 3 yr.
- Conducted 6 workshops/ short courses in the field of Industrial Engineering and Technology Management, arranged by the UCF College of Extended Studies (last 5 years).
- Conducted 3 short courses on quality & ISO 9000, arranged by the UCF College of Extended Studies.
- Conducted 3 workshops overseas (Kuwait and Egypt) in the field of Statistical Quality Control, arranged by the Kuwait Institute for Scientific Research and Industrial Technology Application Program - ITAP in Egypt.
- Conducted seminars/ workshops in Japan, China, Korea and Egypt on the technology of Rapid Prototyping - arranged by the Ashikaga Institute of Technology in Japan, The Chinese Academy of Science in China, Pusan University, Korea, the Academy of Scientific research, and the American University in Cairo and Suez Canal Authority, Egypt.
- Conducted Workshops: Management of Research Projects, Summer 2001/2002/2003. Course for one month organized by Hosni for Saudi Nationalists working in managing Research projects (Others participate in the course: Drs. Sepulveda, Radwan, Kotnour, and Oloufa)
- Operations Research in Traffic/ Transportation Engineering, Summer 2001. Taught the topic for one day in a course organized for practitioners from the Gulf area.
- Invited as a speaker/ Panelist in technology management by the United Nations Industrial Development Organization (UNIDO) in Vienna, Austria. Topic related to technology based industrial development, May 29-30, 2001.

- Invited as a speaker by the Egyptian Embassy - Cultural Mission, to address the American-Egyptians in research opportunities of potential to developing nations, June 12, 2001.