

CURRICULUM VITAE

Name: LEE, Shih-Ming

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Miami, FL 33196
(305) 385-7473

Office: 10555 W. Flagler St., EAS 3174
Florida International University
(305) 348-2256

Academic Rank: Chairperson/Associate Professor
Industrial and Systems Engineering Department
Florida International University

Education: Ph.D. Major: Industrial Engineering
Minor: Mechanical Engineering
Iowa State University, Ames, Iowa
May 1986

M.S. Industrial Engineering
Iowa State University, Ames, Iowa
December 1982

B.S. Industrial Engineering
Tung-Hai University, Taichung, Taiwan, R.O.C.
June 1977

Professional Experience:

Chairperson

Department of Industrial and Systems Engineering, Florida International University
August 1994 - Present

Program Coordinator

Graduate Program in Engineering Management, Florida International University
August 1997 - Present

Acting Chairperson

Department of Industrial and Systems Engineering, Florida International University
August 1993 - August 1994

Associate Professor

Department of Industrial and Systems Engineering, Florida International University
August 1992 - Present
Robotics, Computer Integrated Manufacturing, Economic Analysis, and Total Quality Management.

Assistant Professor

Department of Industrial and Systems Engineering, Florida International University
August 1986 - 1992
Robotics and Computer Integrated Manufacturing.

Laboratory Director

Computer Integrated Manufacturing Laboratory
Industrial and Systems Engineering Department, Florida International University
December 1986 – August 1996
Installation, Maintenance of CAD/CAM, Robotic, and CNC Equipment.

Research Associate

Department of Industrial Engineering, I.S.U., Ames, Iowa
May 1986 - June 1986
Engineering Economy and Engineering Valuation.

Research Assistant

Department of Industrial Engineering, I.S.U., Ames, Iowa
September 1982 - May 1986
Engineering Economy and Engineering Valuation.

Teaching Assistant

Department of Industrial Engineering, I.S.U., Ames, Iowa
September 1980 - August 1982
Method Engineering and Work Measurement.

Industrial Engineer

Tang-Eng Steel Works Company, Kaohsiung, Taiwan, R.O.C.
July 1977 - August 1979
Production Scheduling, Inventory Control, Financial Feasibility Study and Progress Control.

Research Activities:

Journal Papers:

1. Chow, J., Xu, T., Lee, S., Kengskool, K., “Development of An Integrated Laser-Based Reverse Engineering and Machining System,” *The International Journal of Advanced Manufacturing Technology*, No. 19, pp. 186-191, February 2002.
2. Su, Q., Chen, J., Lee, S., “Quality Management Systems Design for Virtual Organizations,” *Electronic Journal of Organizational Virtualness*, Vol. 3, No. 5, pp. 65-79, November 2001.
3. Chen, C., Lee, S., and Shen, Q., “An Analytical Model for the Container Loading Problem,” European Journal of Operational Research, Vol.80 (1995), pp.68-76.

4. Chen, C.S., and Lee, S., Santamarina, G., “*An Object Oriented Manufacturing Control System,*” Journal of Intelligent Manufacturing, Vol. 5, pp. 315-321, 1994.
5. Chen, C., Swift, F., Lee, S., Ege, R., and Shen, Q.S., “*Development of a Feature-Based and Object-Oriented Concurrent Engineering System,*” Journal of Intelligent Manufacturing, Vol. 5, pp.23-31, 1994.
6. Lee, S., and Chen, C.S. “*Robot Programming in the Automated Manufacturing Programming Language Environment (AMPLE),*” Computers and Industrial Engineering, Vol. 21:1-4, pp. 525-528. 1991.
7. Santamarina, G., Chen, C.S., and Lee, S. “*A Application of C++ to Manufacturing System Control,*” Computers and Industrial Engineering, Vol. 21:1-4, pp. 565-570. 1991.
8. Lee, S., Malstrom, E. M., and Vardeman, S. B. “*On the Refinement of the Variable-Lead-Time / Constant-Demand Lot-Sizing Model,*” International Journal of Production Research, Vol. 27, No. 5, pp. 883-899, May 1989.
9. Montag, G. M., and Lee, S. “*Present Worth Cost Analysis Model,*” Heating/Piping/Air Conditioning, pp. 103-106, September 1986.
10. Montag, G. M., and Lee, S. “*Present Worth Decision Procedures,*” ASHRAE Journal, pp. 32-34, May 1986.

Journal Papers under Review:

1. Lee, S., and Lin, K. “*Economic Analysis with Fuzzy Numbers,*” Engineering Economist.
2. Lee, S., and Viteri, P., “*Web-Integrated Approach to Shop Floor Scheduling & Control*”

Book Chapters:

1. Chen, C., Chow, J., Lee, S, and Swift, F., “*Concurrent Product Design Evaluation and Decision Support,*” Concurrent Engineering, by P. Gu and A. Kusiak (eds), Elsevier Science Publisher (North Holland), 1993, pp. 235-245.
2. Carrasco, H., and Lee, S., “*Economics of Advanced Manufacturing Systems during System Design and Development,*” by H. R. Parsaei and A. Mital (eds) Economic Aspects of Advanced Production and Manufacturing System, Chapman & Hall, New York, 1992, pp. 37-44.
3. Lee, S. “*Economic Analysis in the Context of Incomplete Knowledge,*” Ph.D. Dissertation, Iowa State University Press, Ames, Iowa, 1986.

Conference Proceedings:

1. Lee, S., "Faculty Development Program at FIU: A Review after Two Years of Implementation," LACCEI Conference, June 2006, San Juan, PR.
2. Lee, S., Sánchez, M., "Dual Engineering Degree Program at FIU: Summary and Review Following Three Years of Implementation," LACCEI Conference, June 2006, San Juan, PR.
3. Lee, S., Wang, H., "A Generic Framework for Cost and Time Estimation in the Tooling Industry," LACCEI Conference, June 2004, Miami, FL
4. Lee, S., Lin, K.L. and Gupta, S., "*Economic Decision Making Using Fuzzy Numbers*," POMS Conference, April 2004, Cancun, Mexico
5. Rolle-Scott., M., Lee, S., and Jolibois, Jr., S.C., "*Reducing Rear-end Collisions: A Proactive Approach*," WTS 2001 National Conference, May 2001, Los Angeles, CA.
6. Chow, J., Chen, C., Kengskool, K., and Lee, S., "Implementation of Automated 3D Surface Model Creation Module for Laser Scanned Point Data," MAESC 2001 Conference, May 2001, Memphis, TN.
7. Chow, J., Chen, C., Kengskool, K., and Lee, S., "An Automated 3D Surface Model Creation Module for Laser Scanned Point Data," MAESC 2001 Conference, May 2001, Memphis, TN.
8. Lee, S., and Viteri, P., "Web-Integrated Approach to Shop Floor Scheduling & Control," *Proceedings of the First International Conference on Information (INFORMATION'2000)*, October 16-19, 2000, Fukuoka Garden Palace, Fukuoka, Japan.
9. Pinilla, E., and Lee, S., "Internet Approach to CAD/CAPP System Integration," *Proceedings of the First International Conference on Information (INFORMATION'2000)*, October 16-19, 2000, Fukuoka Garden Palace, Fukuoka, Japan.
10. Correa, D., M.A. Centeno, R. Giachetti, S.M. Lee, "A Study of the Response Surface of ER Systems," to appear in the proceedings of the IEMS
11. McIntosh, K., Chow, J., Kengskool, K., and Lee, S., "Rapid Prototyping Complex-Shaped Parts Using Laser Scanned Data", 2000 International Conference on Industry, Engineering, and Management Systems, March 13-15, 2000, Cocoa Beach, FL.
12. Kengskool, K., Chow, J., Lee, S., and Yen, K., "Development of Injection Molding Technology of Large, Transparent, Impact-Resistant, Thick-Walled Parts", The Second Annual Memphis Area Engineering Societies Conference, Memphis, Tennessee, May 11, 2000.

13. Chow, J., Kengskool, K., and Lee, S. M. "An Integrated Reverse and Concurrent Engineering Systems", Proceeding of the Memphis-Area Engineering Societies Conference, Memphis, May, 1999.
14. Reyes, M.F., M.A. Centeno, K. Kengskool, and S.M. Lee (1999), "Towards On-Line Goal Driven Simulation," Proceeding of the 25th International Conference on Computers and Industrial Engineering, S. Waly (ed), New Orleans, LA., 466-469.
15. Ramos, A., Centeno, M.A., Lee, S., and Martinez, S.M., "*Toeards the Integration of Teaching and Learning Processes*," 1999 ASEE Annual Conference, Charlotte, NC, June 1999.
16. Chow, J., Kengskool, K., and Lee, S., "*An Integrated Reverse and Concurrent Engineering System for Aircraft Structural Components*," MAESC '99, Memphis, Tennessee, May 1999.
17. Becerra-Fernandez, I., Lee S., and Hopkins, G.R., "*Reaching out to Engineering Management Students*," 1998 ASEE Annual Conference, Seattle, WA, June 1998.
18. Riedel J., Becerra-Fernandez, I., Lee, S., and Wagner, J., "*An Evaluation of a Knowledge Management Software*," 7th International Conference on Management of Technology, Orlando, FL, February 1998.
19. Becerra-Fernandez, I., Riedel J., and Lee, S., "*Knowledge Management: Redefining Corporate Assets*," 7th International Conference on Management of Technology, Orlando, FL, February 1998.
20. Becerra-Fernandez, I, Lee, S., and Riedel, J., "*The Missing Link in Asynchronous Engineering Management Education*," 1997 ASEM National Conference, Virginia Beach, VA, October 1997, pp. 457-460.
21. Fryer, D. M., Zhu, G., and Lee, S., "*Applying Recent ASME BPV Code Case 2229 for Flat Ribbon Wound Layered Pressure Vessels*," IPRC, Orlando, FL, July 1997.
22. Chow, J. G., Lee, S., and Chen, C. S., "*A feasibility Study for Re-Manufacturing Mechanical Components with Volumetric Features Using Laser Scanning*," pp. 169-172, 1997.
23. Chen, C.S., Swift, F., Lee, S., Ege, R., and Wu, J., "*Feature-based Product Modeling for Concurrent Engineering*," 2nd IERC, September 1992.
24. Chen, C., Swift, F., Lee, S., Ege, R., and Shen, Q.S., "*Development of a Feature-Based and Object-Oriented Concurrent Engineering System*," First International Conference on Object Oriented Manufacturing Systems, Calgary, Alberta, May 1992. pp. 78-83.

25. Chen, C., Shen, Q., and Lee, S. "*Engineering Drawing Recognition: A Survey*," XIth International Conference on Production Research, Hefei, China, August 1991.
26. Lee, S., Shen, Q.S., Yih, T.C., and Soloviev, V.G., "*Analysis of Rod, Scissor, and Trimmer Grabs*," International Conference on Industrial and Applied Mathematics, Washington, DC, July 1991.
27. Lee, S., and Chen, C.S. "*Robot Programming in the Automated Manufacturing Programming Language Environment (AMPLE)*," 13th Conference on Computers and Industrial Engineering, Orlando, Florida, March 1991.
28. Santamarina, G., Chen, C.S., and Lee, S. "*A Application of C++ to Manufacturing System Control*," 13th Conference on Computers and Industrial Engineering, Orlando, Florida, March 1991.
29. Martinez, S.E., and Lee, S. "*New Topics for Productivity Education*," International Conference on Productivity Management, Miami, Florida, February 1991.
30. Martinez, S.E., and Lee, S. "*Computer Needs for Implementing Just-In-Time and Total Quality Control*," Inter-American Engineering Conference, Miami, Florida, December 1990.
31. Lee, S., and Martinez, S. E. "*Japanese Challenge*," 1989 Inter-American Sugar Can Seminars, Miami, September 1989.
32. Lee, S., "*Economic Analysis in the Context of Incomplete Knowledge*," AIIE Annual Conference, Orlando, May 1988.
33. Yen, K., and Lee, S. "*The Strategy of Task Allocations in Automated Manufacturing*," Science, Engineering, and Technology Seminars (SETS), Houston, May 1988.
34. Lee, S., and Martinez, S. E. "*Automation and Robotics: Curriculum and Laboratory Development*," 1988 ASEE Annual Conference, Portland, May 1988.
35. Martinez, S. E., and Lee, S. "*A New Engineering Teaching Concept*," First International Conference on Technology Management, Miami, February 1988.
36. Swift, F. W., and Lee, S. "*Application of Artificial Intelligence for Error Recovery during Robotic Assembly Process*," Engineering and Industrial Software/Computing Conference, Rosemont, IL. May 1987.

Presentations:

1. Becerra-Fernandez, I., Lee S., Hopkins, G.R., "*Reaching out to Engineering Management Students*," 1998 ASEE Annual Conference, Seattle, WA, June 1998.

2. Lee, S., "*Industrial Engineering and ITS Planning*," ITS Consortium Inc. Intern and Educational Development Meeting, Miami, FL, February 22. 1996.
3. Lee, S., Shen, Q.S., Yih, T.C., and Soloviev, V.G., "*Analysis of Rod, Scissor, and Trimmer Grabs*," International Conference on Industrial and Applied Mathematics, Washington, DC, July 1991.
4. Lee, S., and Chen, C.S. "*Robot Programming in the Automated Manufacturing Programming Language Environment (AMPLE)*," 13th Conference on Computers and Industrial Engineering, Orlando, Florida, March 1991.
5. Santamarina, G., Chen, C.S., and Lee, S. "*A Application of C++ to Manufacturing System Control*," 13th Conference on Computers and Industrial Engineering, Orlando, Florida, March 1991.
6. Martinez, S.E., and Lee, S. "*New Topics for Productivity Education*," International Conference on Productivity Management, Miami, Florida, February 1991.
7. Martinez, S.E., and Lee, S. "*Computer Needs for Implementing Just-In-Time and Total Quality Control*," Inter-American Engineering Conference, Miami, Florida, December 1990.
8. Lee, S., and Chen, C.S. "*Classification of Robot Motion for Use in AMPLE*," 3rd AMPLE Consortium Meeting, Lexington, Kentucky, September 1990.
9. Lee, S., and Chen, C.S. "*CIM Lab: A Pilot Program for AMPLE Development*," 2nd AMPLE Consortium Meeting, Minneapolis, April 1990.
10. Lee, S., and Martinez, S. E. "*Japanese Challenge*," 1989 Inter-American Sugar Can Seminars, Miami, September 1989.
11. Lee, S., "*Economic Analysis in the Context of Incomplete Knowledge*," AIIE Annual Conference, Orlando, May 1988.
12. Martinez, S. E., and Lee, S. "*A New Engineering Teaching Concept*," First International Conference on Technology Management, Miami, February 1988.
13. Swift, F. W., and Lee, S. "*Application of Artificial Intelligence for Error Recovery during Robotic Assembly Process*," Engineering and Industrial Software/Computing Conference, Rosemont, IL. May 1987.

Other Publications:

1. Chen, C., Lee, S., and Chow, J., "*SME 1993 Capital Equipment Grant*," (SME Grant#593-1823), Final Report, Society of Manufacturing Engineers, June 1994.

2. Chen, C., and Lee, S., "SME 1992 Capital Equipment Grant," (SME Grant#592-1718), Final Report, Society of Manufacturing Engineers, November 1993.
3. Chen, C., Tansel, Lee, S. "SME 1991 Capital Equipment Grant," I (SME Grant#591-1553), Final Report, submitted to Society of Manufacturing Engineers, July 1992.
4. Kumbhojkar, A.S., and Lee, S. "Development of Digitally Controlled Sensor Probe and Knowledge-base Expert System for the Measurement of Underground Movements," Operation Phase Year-2, Annual Technical Report to Florida High Technology and Industry Research Council, March 1992.
5. Lee, S. "Total Quality Control," SME S.E. Florida Chapter NewsLetter, October 1991.
6. Kumbhojkar, A.S., and Lee, S. "Development of Digitally Controlled Sensor Probe and Knowledge-base Expert System for the Measurement of Underground Movements," Operation Phase Year-1, Annual Technical Report to Florida High Technology and Industry Research Council, March 1991.
7. Lee, S., and Chen, C.S. "An Introduction to Automated Manufacturing Programming Language Environment (AMPLE)," AIIE News Letter, April 1990.
8. Chen, C., Swift, F., Martinez, S., Carrasco, H., and Lee, S., "A Study of Kitchen Improvement and Developments," Final Technical Report, Burger King Corporation, Miami, Florida, January 1990.

Research Projects:

1. Chen, C., and Lee, S., "Study of the cyber manufacturing environment - Phase III," \$383,821, Glory Educational Resource, Inc. August 2001 ~ August 2003. (Funded)
2. Lee, S., "Warehousing & Distribution Management" \$14,954, Danzas AEI, March 2001 ~ December 2001. (Funded)
3. Lee, S., "Formal Definition & Prototyping of OP System," \$30,000, Enterprise Dynamics, December 2000 ~ December 2002. (Funded)
4. Chen, C., and Lee, S., "Study of the Cyber Manufacturing Environment, Phase II," \$309,121, Glory Educational Resource, Inc., July 2000 ~ August 2002. (Funded)
5. Lee, S., "IVHS Planning and Consulting Services Extension," \$190,954, Florida Department of Transportation, July 1999 ~ June 2003. (Funded)
6. Chen, C., and Lee, S., "Study of the Cyber Manufacturing Environment," \$77,799.04, MAGI21.COM, Inc., April 2000 ~ July 2001. (Funded)

7. Chen, C., and Lee, S., "*Study of the Cyber Manufacturing Environment – An Extension*," \$51,449.52, MAGI21.COM, Inc., July 2000 ~ July 2001. (Funded)
8. Chen, C., and Lee, S., "*Evaluation of Information Technology for Creation of a Virtual Manufacturing Environment on the Internet – Phase II*," Pony Computer Corp., \$180,948 (DSRT#99-161), May 1999 ~ December 2000. (Funded)
9. Lee, S., "*IVHS Planning & Consultation Service Extension*," \$63,282, Florida DOT, September 1998 ~ August 1999 (Funded)
10. Chen, C., and Lee, S., "*Modeling the Engineering System Development Process at Boston Scientific Corporation*," Boston Scientific Corp., \$21,120 (DSRT#98-371), August 1998 ~ May 1999. (Funded)
11. Chen, C., and Lee, S., "*Optimization of Electrical and Mechanical System Design*," Navanjo & Associates, Inc., \$15,000, August 1998 ~ May 1999. (Funded)
12. Chen, C., and Lee, S., "*Evaluation of Information Technology for Creation of a Virtual Manufacturing Environment on the Internet – Pilot Study*," Scholars International Publishing Corp., \$25,000 (DSRT#98-234), June 1998 ~ September 1999. (Funded)
13. Lee, S., Chen, C., and Chow, J., "*The SME 1998 Capital Equipment Grant*," Society of Manufacturing Engineers, Contract #598-2527, \$93,824 (\$9,764 cash), June 1998. (Funded)
14. Lee, S., "*IVHS Planning & Consultation Service Extension*," \$63,282, Florida DOT, September 1997 ~ August 1998 (Funded)
15. Lee, S., Chen, C., and Chow, J., "*The SME 1997 Capital Equipment Grant*," Society of Manufacturing Engineers, Contract #597-2444, \$382,745, July 1997. (Funded)
16. Lee, S., "*IVHS Planning & Consultation*," \$58,000, Florida DOT, September 1996 ~ August 1997 (Funded)
17. Chow, J., and Lee, S., "*Development of a Laser-Based Reverse & Concurrent Engineering System for Aircraft Components Manufacturing*," \$25,000 (increase), Wright Lab., January 1996~ June 1998. (Funded)
18. Chen, C., and Lee, S., "*Development of a Computer Integrated Pressure Vessel Design System*," International Pressure Vessel, Inc., \$41,107.14, March 1996 ~ June 1997. (Funded)
19. Lee, S., Chen, C., and Chow, J., "*The SME 1996 Capital Equipment Grant*," Society of Manufacturing Engineers, Contract #596-2280, \$802,299, July 1996. (Funded)
20. Chen, C. and Lee, S., "*Development of a CAD System for Pressure Vessel Design*," \$63,774, International Pressure vessel, Inc. Feb. 1996 ~ June 1997, (Funded).

21. Fernandez, I., Lee, S., and Tosunoglu, S., "*Improvement of Quality and Productivity of Adapto Storage Products*," \$12,000, Adapto Co., January 1996, ~ June 1996. (Funded)
22. Chow, J., and Lee, S., "*Development of a Laser-Based Reverse & Concurrent Engineering System for Aircraft Components Manufacturing*," \$150,000, Wright Lab., January 1996~ December 1998. (Funded)
23. Lee, S., Chen, C., and Chow, J., "*The SME 1995 Capital Equipment Grant*," Society of Manufacturing Engineers, Contract #595-1959, \$240,598.00, July 1995. (Funded)
24. Lee, S., "*IVHS Planning & Consultation*," \$50,000, Florida DOT, Sept., 1995 ~ Aug. 1996 (Funded)
25. Lee, S., Chen, C., Chow, J., and Tansel, I., "*SME 1994 Capital Equipment Grant*," \$301,495, SME Manufacturing Engineering Education Foundation, Contract #594-1959, February 1994. (Funded)
26. Chen, C.S. (PI), Swift, F.W., Ege, R.K., and Lee, S., "*Development of Feature Based Concurrent Engineering System*," \$427,034, Defense Advanced Research Projects Agency, Contract #MDA972-92-J-1008, January 1992 - August 1994. (Funded)
27. Chen, C., Lee, S., and Chow, J., "*SME 1993 Capital Equipment Grant*," \$33,485, SME Manufacturing Engineering Education Foundation, Contract #593-1823, February 1993. (Funded)
28. Lee, S. "*A Feature-Based Product Information Model for Assembled Parts*," \$13,592.00, University Mini-A Term Research Grant, Summer 1993. (Funded)
29. Chen, C., and Lee, S., "*SME 1992 Capital Equipment Grant*," \$158,280, SME Manufacturing Engineering Education Foundation, Contract #592-1718, February 1992. (Funded)
30. Chen, C.S., Tansel, I., and Lee, S., "*AutoCAD and CADKEY*," Capital Equipment, \$14,380, Society of Manufacturing Engineering, Contract #591-1553, May 1991. (Funded)
31. Kumbhojkar, A., Lee, S. "*Development of Digitally Controlled Sensor Probe and Knowledge Base Control System for the Measurement of Underground Movements*," Operation Phase Year-2, Co-PI, \$51,000, Florida High Technology and Industry Council, January - December 1991. (Funded)
32. Yen, K., Lee, S. "*Knowledge Based Electrical Design and Analysis System*," Co-PI, \$50,000, PAWA Complex International Inc., September 1990 - August 1992. (Funded)

33. Kumbhojkar, A., Lee, S. “*Development of Digitally Controlled Sensor Probe and Knowledge Base Control System for the Measurement of Underground Movements,*” Operation Phase Year-1, Co-PI, \$55,701, Florida High Technology and Industry Council, January - December 1990. (Funded)
34. Chen, C.S., Lee, S., Martinez, S.E., and Carrasco, H., “*A Study of Kitchen Improvement and Development,*” Burger King Corp., Co-PI, \$10,000, October 1989 - February 1990. (Funded)
35. Lee, S. “*Knowledge Based Economic Analysis System - Preliminary Study,*” \$8,974.00, University Mini-A Term Research Grant, Summer 1989. (Funded)
36. Lee, S. “*Artificial Intelligence Based Decision Tree in Object Identification Process for Robotic Applications,*” \$7,332.00, University Mini-A Term Research Grant, Summer 1988. (Funded)

Other Grants:

1. Kauffman Campus Initiative, \$3,500,000, The Ewing Marion Kauffman Foundation, 2003-2008.

Professional Registration:

Registered Professional Engineer, Florida, since 1988 (#39549)

Teaching Activities:

Courses Taught:

- ◆ EIN 3354 Engineering Economy
- ◆ EIN 3331 Quality Control
- ◆ EIN 3600 Automation and Robotics
- ◆ EIN 3600L Automation and Robotics Lab
- ◆ EIN 3949 IE Co-OP
- ◆ EIN 4314 Work Design
- ◆ EIN 4314L Work Design Lab
- ◆ EIN 4933 Special Topics
- ◆ EIN 5322 Engineering Management
- ◆ EIN 5605 Robotic Assembly Cell
- ◆ EIN 5605L Robotic Assembly Cell Lab
- ◆ EIN 6115 Survey of Industrial Engineering Basics
- ◆ EIN 6357 Advanced Engineering Economy
- ◆ ESI 3161 Industrial Applications of Microprocessors
- ◆ ESI 4554 ISE Systems Design
- ◆ ESI 5451 Engineering Project Management
- ◆ ESI 6455 Advanced Engineering Project Management

Graduate Student Supervision:

◆ **Dissertation Committee**

- Jiun-Jia Hsu, “*Development of a Medium-Capacity Guideway Transit System Planning Guide*,” Summer 2003. (Civil Eng., Major: Dr. David Shen)
- Oscar A. Saenz, “*Framework for Enterprise Systems Engineering*,” Expected: Spring 2005. (Major: Dr. Chen)

Tirthankar Ghosh, “*Secure Routing And Trust Computation In Multihop Infrastructureless Networks*,” Summer 2005 (Major: Dr. Pissinou)

Vivekananda Jayaram, “*VLSI Realization of streaming server controller for Internet Protocol –Television (IPTV)*,” Fall 2005, (Major: Dr. Wunnava)

◆ **Master Thesis/Project Advisor**

1. • Volkan Okay Yazici, “*An Approach to Efficiently Minimizing the Mailing Costs for Business Mailers*” (MSISE Thesis) Summer 2006.
2. Hongdian Wang, “*A Generic Framework for Cost and Time Estimation in Tooling Industry*,” (MSISE Thesis) Spring 2004.
3. • Aamir A. Ghori, “*Seawater Desalination Plant at Gaddani*,” (MSEM Project) Spring 2004.
4. • Ana C. Aguayo, “*Storage Capacity Model for Fast-Food Restaurants*,” (MSEM Project) Spring 2004.
5. • Raul Vaca, “*Jefferson Reaves: Operational Review*,” (MSEM Project) Fall 2003.
6. • Omar M. Meitin, “*Feasibility Study and Deployment Plan of an Intelligent Transportation System on the 18-mile Stretch of US 1*,” Spring 2003.
7. • Patrick Marchant, “*Feasibility Study of Road Weather Information System (RWIS) for Florida Highways*,” Spring 2002.
8. • Lila Parralas, “*Intranet Based Information Distribution System Development for Miami, Caribbean, Latin America Operation of American Airlines*,” Fall 2001.
9. • Sergio Herrera, “*Design of a Fare Construction Model for the Air Travel Industry from a User’s Perspective*,” Fall 2001.

10. • Ivon del Campo, "*Marketing Data Warehouse at Florida Power and Light*," Fall 2001.
11. • Elizabeth H. Sioli, "*Strategic Distribution Plan for Alliance Entertainment Corp.*," Spring 2001.
12. • Marra Lashbrook, "*Design & Implementation of a Management & Tracking System on Sales Leads*," Spring 2001.
13. • Ernesto J. Polo, "*Optimization of Pavement Condition Report Process*," Spring 2001.
14. • Hazel Georgiana Hall, "*The Testing of the Tensile Strength of Pantherskin*," Spring 2001.
15. • Wellington Richards Jr., "*A Preliminary Eco-Strategic Feasibility Study for the Development of a New Telephony Environment for Florida International University*," Fall 2000.
16. • Melissa A. Rolle-Scott, "*Countermeasures for Reducing Bus Rear-End Collisions In Miami-Dade County: A Pro-Active Approach*," Fall 2000.
17. • Florin Mihaita, "*Real-Time Digital Interface System -- An Implementation Model*," Fall 2000.
18. • Jose I. Alvarez, "*Determination of System Requirements to Improve the Current Information System for the SunGuide Service Patrol Program at Florida Department of Transportation*," Spring 2000.
19. • Jorge I. Sevilla, "*Preliminary Feasibility Study of a Rail Mass Transit System in Southwest Miami-Dada County*," Spring 2000.
20. • Niv Tal, "*Decision Support System Using AVL for Traffic Operation*," Spring 2000.
21. • Myra E. Patino, "*Traffic Engineering Simulation and Analysis: A Comparison of NETSIM™ and INTEGRATION™*," Fall 1999.
22. • Gi-Chu Wu, "*Development of ISO 9001 Quality System Manual for Cardiovascular Engineering Center*," Fall 1999.
23. • Joel Gonzalez, "*Telecommunications Distribution Plan For A New Development*," Fall 1999.

24. • James Patrick Arias, "*Corporate Campus Local Area Network Upgrade*," Fall 1999.
25. • Alvaro D. Quintana, "*A Preliminary Economic Feasibility Study for Dual Production of Electric Power and Ethanol from Sweet Sorghum in Nicaragua*," Fall 1997.
26. • Sandra M. Valdes, "*Short-term Effects of Implementing an Incentive Program geared to Reduce Accidents/Injuries in a Paper Company*," Fall 1997.
27. • Kuo-Lung Lin, "*Economic Decision Making using Fuzzy Logic*," Fall 1996.
28. • Michael Cuba, "*Development of an Economic Screening Model for Analyzing Competitive Alternative Energy Options in the Commercial Utility Market*," Summer 1995.

◆ **Master Thesis/Project Committee**

1. Carlos M. Fares (MSISE Information Systems Track). "*Redisign of Avisena's Billing Department Workflow*," Fall 2005 (Major: Dr. Resnick)
2. Alejandro Perry (MSISE Information Systems Track). "*Teletime Implementation: A Subset of Kronos Time and Attendance System*," Summer 2005 (Major: Dr. Resnick)
3. Edmundo J. Leets (MSIE thesis). "*A framework to Generate JIT Shipping Schedules in the Apparel Manufacturing Industry*," Fall 2004? (Major: Dr. Centeno)
4. Clifford L. Panokarren,. "*Information Model for Engineering Change Management*," Spring 2004. (Major: Dr. Chen)
5. Vinay Kumar Puri (MSIE thesis). "*Development of a Measurement Tool for Mass Customization*," Spring 2004. (Major: Dr. Chen)
6. Rohit G. Nerlekar (MSIE thesis). "*Methodology for Measurement of Supply Chain Flexibility*," Spring 2004. (Major: Dr. Chen)
7. Mansi Srivastava (MSIE thesis). "*Modifying Open Jackson Networks to Validate Simulation Models of Queueing Networks*," Spring 2004. (Major: Dr. Centeno)
8. • Adriana Martinez-More, "*An Overbooking Model for a Medical Clinic*," Summer 2003. (Major: Dr. Giachetti)
9. • Jorge Lozan, "*Integration and Partitioning Study of Distributed Simulation for a Supply Chain Process*," Summer 2003. (Major: Dr. Linn)

10. • Oschta I. Montoya, "*Security for ad Hoc Networks,*" Summer 2003. (Major: Dr. Makki)
11. • Anouar Guerraoui, "*Replenishment Database for Spare Parts Inventory,*" Summer 2003. (Major: Dr. Giachetti)
12. • Melissa Ann Chiacchio, "*A Case in Total Quality Management: FPL Fibernet's Preliminary Pricing Process,*" Summer 2003. (Major: Dr. Giachetti)
13. • Mayra Esther Morales, "*Grant Database for the Department of Industrial and Systems Engineering of Florida International University,*" Summer 2003. (Major: Dr. Giachetti)
14. • Ramesh Nori, "*A Heuristic Algorithm for Crate Cutting Problem,*" Spring 2003. (Major: Dr. Chen)
15. • Elda Y. Zavala, "*A Basic Study to Improve the Waste Management System for the Town of Nandaime, Nicaragua,*" Spring 2003. (Major: Dr. Fuentes)
16. • Fernando Meza, "*Security Aware in Ad-Hoc Network Systems,*" Spring 2003. (Major: Dr. Makki)
17. • Jennifer M. Bandos, "*The Effects of Semantic and Syntactic Instruction on User Performance and Satisfaction in Search User Interface Design,*" Spring 2003. (Major: Dr. Resnick)
18. • Tony A. Musibay, "*A surface Mount Technology (SMT) Assembly Line,*" Fall 2002. (Major: Dr. Chen)
19. • Ramon B. Mejia, "*Provisioning an Interactive DVB Satellite Return Channel,*" Fall 2002. (Major: Dr. Makki)
20. • Affredo Moranhassam, "*Casting Variability Control Through Design of Experiments,*" Fall 2002. (Major: Dr. Linn)
21. • Mony Manoyrine, "*Effects of the Atmosphere in Satellite Communications,*" Fall 2002. (Major: Dr. Makki)
22. • Carlos Gandarillas, "*The Impact of Website Design and Privacy Practices on Trust,*" Summer 2002. (Major: Dr. Resnick)
23. • Frank L. Dopico, "*Overcoming Implementation Obstacles for BellSouth's Miami Beach Fiber-Optic Phone Network,*" Summer 2002. (Major: Dr. Pissinou)
24. • Jorge A. Lozan, "*Scalability Analysis of a Distributed Simulation System for the Integration of a Supply Chain Process,*" Summer 2002. (Major: Dr. Linn)

25. • Rody van Leeuwen, "*Heat Bar Sealing Process Improvement for Medical Device Pouch Packaging,*" Summer 2002. (Major: Dr. Kengskool)
26. • Brijesh G. Kansara, "*A Methodology for Yield Management in Contract Manufacturing Firms,*" Summer 2002. (Major: Dr. Giachetti)
27. • Girish Manchapanahalli, "*Study of Proposed Conveyor System At Atlanta Office Depot Warehouse,*" Spring 2002. (Major: Dr. Centeno)
28. • Ashutosh Pandya, "*Application of Simulation to Improve the Quality and Efficiency of the Emergency Service Facility at Kendall Medical Center,*" Spring 2002. (Major: Dr. Centeno)
29. • Diego T. Matrajt, "*Improving the Checkout Process of a Grocery Store through Six Sigma,*" Spring 2002. (Major: Dr. Centeno)
30. • Ziv Koren, "*A Study of Due Date Assignment in the Operation of a Job Shop,*" Spring 2002. (Major: Dr. Chow)
31. • Praveen K. Poola, "*Design of a Manufacturing Operation System for Taco Metals Inc.,*" Spring 2002. (Major: Dr. Chen)
32. • Ravi K. Dowluri, "*Web-based Simulation to Model Emergency Operations in Health Care Systems,*" Spring 2002. (Major: Dr. Centeno)
33. • Aravind Mudunuri, "*Applying the RMM to Develop the Information Systems Track Website,*" Spring 2002. (Major: Dr. Giachetti)
34. • Poornima Lakshman, "*Development and Implementation of Methodology for Graphical Image Display on Cisco IP Phone,*" Spring 2002. (Major: Dr. Gloster)
35. • Juan Roque, "*ADSL Loop Management and Provisioning Problems,*" Spring 2002. (Major: Dr. Makki)
36. • Hanie A. Sathar, "*Development of Voice Information System for ISE Department,*" Spring 2002. (Major: Dr. Gloster)
37. • Ismael Gonzalez, "*Implementation of a Division Resources Planning (DRP) in TACO Metals Inc.,*" Summer 2001. (Major: Dr. Chen)
38. • Qiansan Shen, "*Two-Dimensional Layout Problem for Non-Rectangular Items,*" Summer 2001. (Major: Dr. Chen)
39. • Julian Sanchez, "*The Quantitative Effects of the Degradation of Organizational Structure, Labeling, Screen Density and Color Contrast on*

- User Performance and Satisfaction in the WWW,*” Summer 2001. (Major: Dr. Giachetti)
40. • Cesar I. Caldera, “*A Methodology for Managing and Monitoring Performance in the Healthcare Industry,*” Summer 2001. (Major: Dr. Giachetti)
 41. • Weidong Xue, “*Internet-based Academic Advising System,*” Spring 2001. (Major: Dr. Chen)
 42. • Zhihua Zhang, “*Assessment of Radiological Characterization Technologies,*” Spring 2001. (Major: Dr. Dua)
 43. • Qiansan Shen, “*Two-Dimensional Layout Problem for Non-Rectangular Items,*” Spring 2001. (Major: Dr. Chen)
 44. • Raquel Montania, “*The Effect of Visible Customer Support and Privacy Policy in Retail Electronic Commerce,*” Spring 2001. (Major: Dr. Resnick)
 45. • Guillermo Ramirez, “*Specification of a Knowledge Management System for a Technical Call Center,*” Spring 2001. (Major: Dr. Giachetti)
 46. • Rebeca Lergier, “*A Schema-based Model of Internet Search and Evaluation,*” Spring 2001. (Major: Dr. Resnick)
 47. • Walkyria Rivadeneira, “*Evaluation of Decision Support System for Consumer-based E-Commerce,*” Spring 2001. (Major: Dr. Resnick)
 48. • Hua Zhang, “*Design of a Concurrent Engineering Operations Management System,*” Spring 2001. (Major: Dr. Chen)
 49. • Christos Christophi, “*Optical Communication and Information Systems: Anything New,*” Spring 2001. (Major: Dr. Makki)
 50. • Everette A. Lopez, “*Strategic Implementation and Development of FIU's Technology Infrastructure to Enhance Education,*” Fall 2000. (Major: Dr. Giachetti)
 51. • Curt H. Persaud, “*Investigation of Formatting Methods for Presenting Traffic Information Via Small Screen Devices,*” Fall 2000. (Major: Dr. Resnick)
 52. • Sonia R. Anorga, “*A Simulation-based Heuristic for Fleet Assignment,*” Fall 2000. (Major: Dr. Centeno)
 53. • Richard Villacis, “*On the Implementation of Wireless Network Technology at FIU's College of Engineering,*” Fall 2000. (Major: Dr. Tosunoglu)

54. • Xinxin Wang, "*Design and Implementation of Workflow Management,*" Fall 2000. (Major: Dr. Chen)
55. • Mary Ordax, "*Medical Device Manufacturing Industry Database for Coronary Angioplasty Devices,*" Summer 2000. (Major: Dr. Chen)
56. • Pablo Viteri, "*Design and Development of an Internet Integrated Practical Scheduling System that Maintains Feasible Due Dates in a Dynamic Job Shop,*" Summer 2000. (Major: Dr. Chen)
57. • Eliecer S. Pinilla, "*Design and Implementation of a Web-based Process Planning System for a Dynamic Job Shop,*" Summer 2000. (Major: Dr. Chen)
58. • Antonio R. Llanos, "*eCustomer Systems,*" Spring 2000. (Major: Dr. Giachetti)
59. • Ignacio Goris, "*Encapsulation of Intelligence in Traffic Simulation Entities,*" Spring 2000. (Major: Dr. Centeno)
60. • Jacqueline M. Jones, "*On-line Goal Driven Simulation for Terminating Systems,*" Fall 1999. (Major: Dr. Centeno)
61. • Anil Bommakanti, "*Design and Implementation of a Web-based Shop Floor Control System to Maintain Schedule Feasibility in a Dynamic Job Shop,*" Fall 1999. (Major: Dr. Chen)
62. • Keith L. McIntosh, "*The Prototyping of Aircraft Structural Components Using Rapid Prototyping,*" Fall 1999. (Major: Dr. Chow)
63. • Fan Zhang, "*Dimensional Tolerance & Surface Finish Prediction,*" Summer 1999. (Major: Dr. Chen)
64. • Anthony Smith, "*Skylight Estimating System for Commercial Building Construction,*" Summer 1999. (Major: Dr. Ahmad)
65. • Costas A. Hoplaros, "*A Characterization of the Effects of System Performance on User Productivity,*" Spring 1999. (major: Dr. Jacko)
66. • Badrinath S. Eluri, "*Analysis of Dual-Gripper Manipulators and Finite Element Analysis of the Flexible Laminated Hose for Underground Storage Tank Cleanup,*" Spring 1999. (Major: Dr. Yih)
67. • Hector Hartmann, "*Value Chain of the Launch Campaign of the Ariane-4,*" Spring 1999. (Major: Dr. Fernandez)

68. • M. Florencia Reyes, "*A Heuristic for On-line Forecasting of Simulation Output within the Context of Goal Driven Simulation,*" Fall 1998. (Major: Dr. Centeno)
69. • Peter B. Degenu, "*Design and Implementation of Process Control Parameters for a Centrifugal Investment Casting,*" Summer 1998.
70. • Anabel D. Ramos, "*An Integrated Model of the Teaching and Learning Process: Increasing Effectiveness through Continuous Improvement,*" Summer 1998. (Major: Dr. Centeno)
71. • Benigno J. Meneses, "*Design and Feasibility Study of a SCARA Robot with a Box Gripper for the Corrugated Box Industry,*" Summer 1998. (Major: Dr. Tosunoglu)
72. • Tin-Di Xu, "*Reverse Engineering,*" Summer 1998. (Major: Dr. Chen)
73. • Mireya R. Moncada, "*A Methodology for Productivity Measurement and Planning in the Fast-food Service Industry,*" Spring 1998. (Expected). (Major: Dr. Centeno)
74. • Gregorie Dolce, "*A Heuristic Approach to Handle Small Sample Sizes in Engineering Decision Making,*" Spring 1998. (Expected). (Major: Dr. Centeno)
75. • Bo Li, "*Structural Optimization and Analysis of Pantograph Manipulator,*" Spring 1997. (Major: Dr. Yih)
76. • Meryem Ouhirra, "*Parameter Design Considerations in Precision Engineering,*" Spring 1997. (Major: Dr. Centeno)
77. • Yuee Zhang, "*A Methodology for Automatic Tool Assembly Design,*" Spring 1996. (Major: Dr. Chen)
78. • Wayne Pujadas, "*A Reliability Centered Maintenance Decision System for a Discrete Part Manufacturing Facility,*" Fall 1996. (Major: Dr. Chen)
79. • Ori Y. Lapidot, "*A Comprehensive Approach to Develop an Effective, Economical Model for Safety Cost Evaluation,*" Fall 1995. (Major: Dr. Kengskool)
80. • Jiankun Huang, "*A Neural Network Based Intelligent Control for Rail-Guided Vehicles and Load/Unload Operations in a Flexible Manufacturing System,*" Fall 1995. (Major: Dr. Chen)
81. • Jeannie H. Caicedo, "*Relationship Between Technical Knowledge and Price-Perceived Quality in an Industrial Setting,*" Fall 1994. (Major: Dr. Centeno)

- 82. • Smith Sukapanpotharam, “*An Application of Genetic Algorithms in a Flow Shop Scheduling Problem,*” Summer 1994. (Major: Dr. Chen)
- 83. • Mario Sanchez, “*Feature Based Process Planning,*” Summer 1994. (Major: Dr. Chen)
- 84. • Samuel R. Sagarsee, “*Producibility Evaluation in Concurrent Engineering,*” Summer 1994. (Major: Dr. Chen)
- 85. • Gustavo J. Lazaro, “*The Effects of Back Support on Back Injuries,*” Summer 1994. (Major: Dr. Resnick)
- 86. • Nico Lawn, “*Design of Manufacturing Database for Concurrent Engineering,*” Summer 1994. (Major: Dr. Chen)
- 87. • Zahir E. Rolling, “*A Study of the Annealing Schedules for the Job Shop Problem,*” Spring 1994. (Major: Dr. Chen)
- 88. • Kun Ji, “*Inverse Kinematic Control of General Robot Manipulators by Applying C-B Notation,*” Fall 1993. (Major: Dr. Yih)

Courses Developed:

- ◆ EIN 3604 Robotic Assembly Cell
- ◆ EIN 3604L Robotic Assembly Cell Lab
- ◆ EIN 4601 Robotic System
- ◆ EIN 5605 Robotic Assembly Cell
- ◆ EIN 5605L Robotic Assembly Cell Lab
- ◆ EIN 6115 Survey of Industrial Engineering Basics

Program Developed:

- ◆ Program proposal for Ph.D. in “Industrial and Systems Engineering” (2002).
- ◆ Program proposal for Master of Science degree in “Technology Management” (2002).
- ◆ Program proposal for “Information Systems Engineering” Track in Master of Science degree in Industrial Engineering (2001).
- ◆ Implementation proposal for Master of Science degree in “Engineering Management” (1996).
- ◆ Feasibility/Planning proposal for Master of Science degree in “Engineering Management” (1995).
- ◆ Participated in developing curriculum of Manufacturing Engineering track (1994).

- ◆ Participated in the Planning Proposal for the Graduate Program of “Industrial Engineering”.
- ◆ Participated in the Implementation Proposal for the Graduate Program of “Industrial Engineering”.

Laboratory Development:

- ◆ Planning of Manufacturing Research Center, Florida International University.
- ◆ Planning, Installation, and Maintenance of Computer Integrated Manufacturing Laboratory of Industrial and Systems Engineering Department, Florida International University.
- ◆ In charge of moving, re-installation, and calibration of all the equipment in CIM Laboratory.
- ◆ Participated in planning and installation of System and Simulation Lab, Industrial Manufacturing Lab, Human Factor Lab, and Industrial Material Lab.

Graduate student advising:

- ◆ Advised 60 (currently) Engineering Management students per semester.

Undergraduate student advising:

- ◆ Advised 15 (currently) I&SE students per semester.
- ◆ Supervising the development of the “Advising Expert System.”
- ◆ Maintaining of the current advising form.

Service Activities:

Service to the University Community:

- Ad-hoc Committee on Ryders Logistic Center (1996 - 1998)
 - Planning for Center’s activities
 - Development of curriculum for Logistic program
 - Recruitment of Center Director and Endowed Chair
- Manager of Computer Integrated Manufacturing Laboratory (1986 - present)
 - Set-up and maintained robotic and CNC equipment

- Interfaced robots and CNC machines for computer control
- Monitor Laboratory development
- Provide demonstration for local industries and visitors

- Faculty Senator Steering Committee (1993 - 1994)
 - Initiate motions and meeting agenda
 - Nominate Chairs for Faculty Senate and Standing Committees

- Faculty Senator (1991 - 1994)
 - Represent College of Engineering and Design
 - Formulate, discuss, and pass resolutions

- University Library Committee (1990-91)
 - Formulate library development plan
 - Allocate library budget.
 - Liaison between the college and the library.

- AMPLE Project Director (1990 - 1992)
 - Standardize robotic task description.
 - Develop interpretation modules for the various robotic tasks.
 - Generate interface modules for various robotic equipment in CIM Lab.
 - Verify all the developed modules.
 - Transfer the new technology to local industries.
 - Report progress to AMPLE consortium.
 - Member of Technical Committee to oversee AMPLE development.
 - Host AMPLE consortium meetings.

Service to College of Engineering:

- Member of Administrative Council (Aug. 1993 - 1998).
 - Initiate strategic plans for the College of Engineering and Design.

- Member of Dean's Advisory Group on Strategic Computer Planning (1989 - 1994).
 - Initiate the Engineering and Design Information Center.
 - Review of college wide computer needs.
 - Formulate future plans for computer usage within the college.

- Chair of Library Committee, College of Engineering & Design (1990-1991).
 - Allocate budget among departments.
 - Conduct quarterly meetings.
 - Coordinate purchasing efforts from various departments.

Service to Department of Industrial and Systems Engineering:

- Chairperson (Fall 1994 - present)
 - Oversee the operations of the department.

- Initiate strategic plans for the department.
- Organizer, 2001 Industrial Project Conference (Spring 2001)
- Acting Chairperson (1993 - 1994)
 - Oversee the operations of the department.
 - Initiate strategic plans for the department.
- Chair, Search and Screen Committee (Spring 1993).
 - Draft and finalize advertisement for faculty position.
 - Establish evaluation criteria.
 - Conduct meetings.
 - Setup interviews.
 - Make recommendations.
- Chair, Tenure and Promotion Committee (1992 - 1993).
 - Establish evaluation guidelines.
 - Conduct meetings.
 - Make recommendations.
- Acting Chairperson (Fall 1991).
- Department Librarian (Fall 1989 - Spring 1991).
- Department Librarian for Graduate Program (Fall 1989 - Spring 1990).
- Member of Search and Screen Committee for IE Faculty (1987, 1988, 1989, 1990).
- Member of Search and Screen Committee for IE Chairperson (1990).
- Member of Departmental Committee to design the Student Advising Form, and Faculty Evaluation Form (1987).

Indirect Services to the University Community (not remunerated):

- University Liaison, IIE Greater Miami Chapter (2001 to present)
- Session Chair, 11th International Conference on Computer Communications and Networks, Miami, Florida, October 14-16, 2002
- Executive Board and Secretary, Chinese-American Scholars Association of Florida (CASAF), 1992 - 1993
 - 1992 CASAF Annual Meeting Program Coordinator
 - Chief Editor for CASAF Quarterly News Letters
 - Panelist of the “*Future of China*” Seminar.
 - Chief Editor, Proceedings for the 1993 CASAF Annual Meeting

- Chief Editor of the “*Proceedings for the Apparel Manufacturing Conference*,” 1992
- Chair of Election Committee, Institute of Industrial Engineers, Local Chapter, 1988.
- Reviewer for the *Journal of Robotic Systems*, 1989 - present.
- Organizer of the 1st Industrial Conference (ICON '89).
- Advisor of student project “*Small Scaled CIM Model*” displayed at International Industrial Engineers Conference, Orlando, May 1988.
- Advisor of student project “*Comparison of Physical and Digital Simulation on Paint Factory Model*” displayed at International Industrial Engineers Conference, Toronto, May 1989.
- “*Computer Integrated manufacturing*,” Exhibit at IIE Local Chapter meeting, Miami, September 1988.
- “*Computer and Manufacturing*,” Exhibit at First Computer Application Conference, Miami, September 1989.
- “*Robotic Applications in Manufacturing*,” Exhibit at Dade Manufacturing Council, Miami, September 1990.
- Consulting: Montenay Power Corp., Supervisor Training, April 1989.
- Recruited High School Student at Career Fair, 1989.
- Participated in Miami Early Awareness Program, 1991 & 1992.
- Presentation of CIM Lab to Governor Martinez.
- Presentation of CIM Lab to Governor Chiles.

Honorary and Professional Society:

Alpha Pi Mu

Recipient of Graduate Research Excellence Award, 1986

Recipient of George E. Lamp, Jr., Memorial Scholarship, 1985

American Institute of Industrial Engineers, Senior Member, 1981-

Society of Manufacturing Engineers, Senior Member

American Society of Mechanical Engineers, Senior Member

Vice President of the Senior Class, 1977

Continuing Education:

- ◆ “SAP Supply Chain Management with Advanced Planning and Optimization,” Dallas, , March 1-3, 2006
- ◆ “eMatrix Business Administrator,” FIU, MatrixOne, August 4-8, 2000
- ◆ “Pro-Engineer Software,” FIU, October 29 – November27, 1997
- ◆ “Material Handling Institute,” New Jersey Institute of Technology, June 3-7, 1991
- ◆ “SimFactory Programming Course,” CACI, Washington DC, February 7-10, 1989.
- ◆ “A Real-Time Interface Coprocessor (ARTIC) Card Programming,” IBM Manufacturing System Product Training Program, Boca Raton, Florida, July 11 - 15, 1988.
- ◆ “IntelleVue 200 Operation and Programming Course,” Intelledex Inc., Corvallis, Oregon, December 14 - 18, 1987.
- ◆ “COP 3402 Assembly Language Programming,” Mathematics Department, Florida International University, Summer 1987.
- ◆ “IBM 7565 Manufacturing System Maintenance Education,” IBM Manufacturing System Products Training Program, Boca Raton, Florida, July 7 - 25, 1986.