

CURRICULA VITA

June 2017

I. PERSONAL INFORMATION

1. **Name and Title:** Oren Masory, Professor.
2. **Address:** Mechanical Engineering Department
Florida Atlantic University
Boca Raton, FL 33431
3. **Business Telephone:** (561) 414-5788
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II. PROFESSIONAL INFORMATION

1. Educational Background

B.Sc., ME, Technion, Israel Institute of Technology, Haifa, Israel, 1974.
M.Sc., ME, Technion, Israel Institute of Technology, Haifa, Israel, 1977.
Ph.D., Technion, Israel Institute of Technology, Haifa, Israel, 1980.

2. Employment History

Professor, 9/93 – present
Mechanical Engineering Department Chairman 5/06 – 8/09
Mechanical Engineering Department Interim chairman, 8/05 – 4/06
Director, Robotics Center, 6/94 – 8/05
Acting director, Robotics Center 9/93 - 6/94

Associate Professor, 9/88 - 8/93
Department of Mechanical Engineering
Florida Atlantic University, Boca Raton, Florida

Assistant Professor, 1/83 - 8/88
Mechanical Engineering Department
Texas A&M University, College Station, Texas

Research Engineer, 8/80 - 12/82
Gould Research Center
Gould Inc., Rolling Meadows, Illinois

3. Consulting:

- a. Motorola Paging Division, Boynton Beach, Florida – Design and construction of Instrumented Impact Testing Machine
- b. Pratt & Whitney, West Palm Beach, Florida – Development of Vision Based Inspection System for Abrasive Water Jet Machine

- c. Sensormatic Electronics, Deerfield Beach, Florida – Development of control software for a manipulator for mapping of electromagnetic fields
- d. CDM , Fort Lauderdale, Florida – FEM failure analysis of nozzle system
- e. Expert witness in more than 300 cases including Vehicle Accident Reconstruction, Low Speed Impact, Product Liability (Ladders, Chairs, Elevators, Hydraulic Lifts, Power Tools, Machinery etc.), Trip Slip & Fall, Building and Safety Codes (Stairs, rails, swimming pools etc.) and others.

4. Instructional Experience

Courses taught

EGS-1111	Engineering Graphics
ME-212	Statics
ME-213	Dynamics
EML-4312	Vibrations
ME-334	Mechanical Systems - I
ME-335	Mechanical Systems - II
ESI-6155	Computer Control of Manufacturing Systems
EML-6930	Experimental Machining (with lab)
EML-5451C	Industrial Automation (with lab)
EIN-6055	Automatic Assembly
EML-3523C	Experimental Methodology (with lab)
EML-6930	Mechatronics
EML-6930	Micro Electromechanical Systems (MEMS)
EML-4534	Computer Applications
EML-4535	Introduction to Computer Aided Design
EML-4303	Mechanical Systems Lab
ME-310	Manufacturing Processing Systems

5. Theses/Dissertations Supervision

- Melissa Morris, "Cable Driven Robot for Physical Therapy", M. Sc., Fall 2007.
- Aquiles Perez, "Analysis of Factors Affecting the Sound Generated by Airboats", M.Sc., Spring 2006
- Sangthen Chirdchid, "A Genetic Algorithm for Non-constrained Process and Economic Process Optimization", Ph.D., Spring 2004
- Daoxi Xiu, "Trajectory Control of a New Class of CNC Machine Tools", Ph.D., Fall 1998.
- Richard J. Murgatroy, "A Petri Net Framework for Simulation and Control of Automated Systems", M.Sc., Fall 1995.
- Chenthilvel M. Subramanian, " Development of a Graphical User Interface for Stewart Platform", M.Sc., Summer 1993.
- Kurapati Venkatesh, "Model-Based Neural Network for Tool Wear Estimation", M.Sc., Spring 1992.
- Jian Wang, "Workspace Evaluation and Kinematic Calibration of a Stewart Platform", Ph.D., Spring 1992.
- Lowrance Marquis, "Development of a Controller for a Stewart Platform, M.Sc., Summer 1992.
- Arun Kumar, "Selection of Manufacturing Tolerances for Open-Chain Mechanisms, M.Sc. 1992.
- Liu Hsu-Jeng, "Design and Control of an Active Compliance Gripper", M.Sc., Spring 1985.
- Chang Po Lam, "Robot Programming Aid for Panel Drilling", M.Sc., Summer 1986.

Donald S. Zimmerman, "Evaluation of Control Algorithm for Robot's Joint", M.Sc., Summer 1986.
 Shield Bao-Hsin Lin, "Adaptive Control for Machine Tools", Ph.D., Summer 1986.
 Song Jay-Wook, "2D Gripper Compliance", M.Sc., Spring 1987.
 Juan A. Sanchez-Vanzzini, "The Development and Construction of an Inductive Tactile Sensor", M.Sc., Spring 1987.
 Aaron Kirksharian, "A Computerized Graphical Approach to the Solution of the Machining Economics Problem", M.Sc. Fall 1987.
 Luis Arturo Aguirre, "Design and Construction of a Learning End-Point Sensor", M.Sc., Spring 1988.

III. Publications

3.1 Refereed Journals

38. Oren Masory, "Measurement of the Coefficient of Friction of Walking Surfaces", International Journal of Engineering Research and Technology, issue 10, October 2017
37. O. Masory, Comments on ASTM F2508-13, Journal of Ergonomics, September 30, 2016
36. O. Masory, W. Bartlett, W. Wright, "Determination of Motorcycle Pre-Collision Speed Part II – Self Learning Models", Collision – The International Compendium for Crash Research, Vol. 9 Issue 2, 2014.
35. O. Masory, W. Bartlett, W. Wright, "Determination of Motorcycle Pre-Collision Speed Part I - Physical Models", Collision – The International Compendium for Crash Research, Vol. 9 Issue 2, 2014.
34. K. Schau, O. Masory, "Ejection of a Rear Facing, Golf Cart Passenger", Journal of Accident Analysis and Prevention, Vol. 59, October 2013, pp. 574-579.
33. O. Masory, N. Puto, "Determination of Impact Force and Crush Energy Using Abductive Networks", Collision – The International Compendium for Crash Research, Fall 2012, pp.52-62.
32. O. Masory, L. Malaptias, W. Wright, "Enhanced Fifth Wheel Modelling and Testing", SAE Transactions Journal of Commercial Vehicles, 2005.
31. W. D. Bartlett, B. Wright, O. Masory, B. Schmidt, R. Brach, A. T. Baxter, F. Navin, T. Stanard, "Quantifying the Uncertainty in Various Measurement Tasks Common to Accident Reconstruction", SAE Transactions, 2002.
30. W. Bartlett, W. Wright, R. Brach, A. T. Baxter, O. Masory, "Accuracy of Vehicle Speed Estimates by Stationary Witnesses", IMPACT (Journal of the Institute of Traffic Accident Investigators), Kent, UK, August 2002.
29. W. Bartlett, W. Wright, O. Masory, "Driver Abilities in Closed Course Testing", SAE Transactions – Journal of Passenger Car – Mechanical Systems, 2000.
28. H. Zhuang, L. Yan, O. Masory, "Calibration of Stewart Platform and other Parallel Manipulators by Minimizing Inverse Kinematics Residuals", Journal of Advanced Robotics, Vol. 15, No. 7, 1998, pp. 395-405.
27. H. Zhuang, L. Liu, O. Masory, "Autonomous Calibration of Hexapod Machine Tool", ASME J. of Manufacturing Science and Technology, Vol. 121, Nov. 1999.
26. Masory O., Wang J., Zhuang Z., "Kinematic Calibration of Stewart Platform", Journal of Advanced Robotics, Vol.11, No.5, 1997.
25. O. Masory, "Florida - Sunshine Robotics", Industrial Robot, Vol. 23, No. 2, pp. 34-37,1996.
24. Pankaj Kanwar, Oren Masory, "Identification of Robot Kinematic Parameters Using Evolutionary Algorithms", Journal of Intelligent Automation and Soft Computing, Vol. 2, pp. 37-48, May 1, 1996.

23. O. Masory, Y. Jiahua, "Measurement of Pose Repeatability of Stewart Platform", Journal of Robotics Systems, Vol. 12, No. 12, pp. 821-832, Dec. 1995
22. O. Masory, "An Integrated Approach to Simulation, Control and Real Time Diagnostic of Manufacturing Systems Based on Adaptive Augmented Timed Petri Net", Trans. of North American Manufacturing Research Institution of SME, Vol. 22, 1994.
21. Masory O., Wang J., "Workspace Evaluation of A Stewart Platform", Journal of Advanced Robotics, Vol. 9, No. 4, pp. 443-461, 1995.
20. Masory O., Kumar A., "Optimal Selection of Manufacturing Tolerances for Open Kinematic Chain", Trans. of North American Manufacturing Research Institution of SME, pp. 343-349, 1993.
19. Huang M., Masory O., "A Simple Method for Accuracy Enhancement for Industrial Manipulators", Journal of Advance Manufacturing Technology, Vol. 8, No. 5, pp. 114-122, Oct. 1992.
18. Masory O., "Tool Wear Modeling by Abductive Networks Using Cutting Force Measurements", Trans. of North American Manufacturing Research Institution of SME, Vol. XX, pp. 219-226, May 1992.
17. Masory O., "Monitoring Machining Processes Using Multi-Sensor Readings Fused by Artificial Neural Network", Journal of Material Processing Technology, Vol. 28/1-2, pp. 231-240, Sep. 1991.
16. Masory O. Wang J., "Improving Contouring System Accuracy by Two-Stage Actuation", Trans. of North American Manufacturing Research Institution of SME, Vol. XIX, May 1991.
15. Masory O., Aguirre A.L., "Neural Network Calibrates a Displacement Sensor", Sensors, Vol. 7, No. 3, March 1990.
14. Masory O., et. al., "Development and Construction of an Inductive Tactile Sensor", Trans. of North American Manufacturing Research Institution of SME, Vol. C XVII, May 1989.
13. Masory O., et. al., "A 2-DOF Active Compliant Gripper for Robotic Applications", The Journal of Working Technology, 1989.
12. Shield Bao-Hsin Lin, Masory O., "Gains Selection for a Variable Gain Adaptive Control System for Turning", Trans. of ASME Journal of Engineering for Industry, Vol. 110, No. 4, Nov. 1987.
11. Masory O., "Improving Contour Accuracy of NC/CNC Machine Tools Using Real-Time Cutting Force Measurements", Recent Developments in Production Research, Elsevier Science Publishers, 1987.
10. Masory O., "Improving Contouring Accuracy of NC/CNC Systems with Additional Feed-Forward Loop", Trans. of the ASME Journal of Engineering for Industry, Vol. 108, No. 3, August 1986.
9. Masory O., Koren Y., "Stability Analysis of a Constant Force Adaptive Control System for Turning", Trans. of the ASME Journal of Engineering for Industry, Vol. 107, No. 4, November 1985.
8. Masory O., "Real-Time Estimation of Cutting Process Parameters in Turning", Trans. of the ASME Journal of Engineering for Industry, Vol. 106, No. 3, August 1984.
7. Masory O., Koren Y., "Variable Gain Adaptive Control for Turning", SME Journal of Manufacturing Systems, Vol. 2, No. 2, 1983.
6. Levi R., Koren Y., Malkin S., Masory O., "Time and Feed Dependent Fracture of Cutting Tools - A Stochastic Model", Annals of the CIRP (International Institute for Production Engineering Research), Vol. 31, No. 1, 1982.
5. Masory O., Koren Y., "Reference-Word Circular Interpolators for CNC Systems", Trans. of the ASME Journal of Engineering for Industry, Vol. 104, pp. 400-405, November 1982.

4. Koren Y., Masory O., "Adaptive Control with Process Estimation", Annals of the CIRP (International Institute for Production Engineering Research), Vol. 30, No. 1, 1981.
3. Koren, Y., Masory O., "Reference-Pulse Circular Interpolators for CNC Systems", Trans. of the ASME Journal of Engineering for Industry, Vol. 103, pp. 131-136, February 1981.
2. Masory O., Koren Y., "Adaptive Control System for Turning", Annals of the CIRP (International Institute for Production Engineering Research), Vol. 29, No. 1, 1980.
1. Masory O., Koren Y., Schachrai A., "Computer Control for Laser System", Journal of the Association of Engineers & Architects in Israel, 7, pp. 4-12, 1977.

3.2 Refereed Conference Proceedings

70. Hanqi Zhuang, Zvi S. Roth, Oren Masory and Nurgun Erdol (2016). Assistive Technology in Capstone Engineering Design. *IEEE International Symposium on on Computer, Consumer and Control*. 192.
69. Oren Masory, Hanqi Zhuang, Gary Salivar, "Engineering Capstone Design Courses at Florida Atlantic University, Proc. 14th LACCEI Annual International Conference, San Jose, Costa Rica, 20-22 July 2016.
68. Oren Masory, "On the safety of Golf Carts Passengers", Proc. 14th LACCEI Annual International Conference, San Jose, Costa Rica, 20-22 July 2016.
67. Oren Masory, Jesse Curtin, "Shoulder Range of Motion Measurement", 13th LACCEI Annual International Conference: "Engineering Education Facing the Grand Challenges, What Are We Doing?" July 29-31, 2015, Santo Domingo, Dominican Republic.
66. Shankar, R., Borrás, J., McAfee, F.X., Harris, M., Ploger, D., Masory, O., Behara, R., Impact of Motorola's Vision on FAU's Engineering Curriculum, Conf. on Industry and Education Collaboration, Phoenix, AZ, February 2013.
65. Oren Masory and Oliver Sanroma, "Upper-Limbs Rehabilitation Devices Part II – Passive Devices", Proc. RESNA 2013, July 22-24, 2013, Bellevue, WA.
64. Oren Masory, Melissa Morris, Yannick Tobie, "Upper-Limbs Rehabilitation Devices Part I – Active Devices", Proc. RESNA 2013, July 22-24, 2013, Bellevue, WA.
63. Oren Masory, "Low Cost Real Life Laboratory for Mechanical Engineers", Eleventh LACCEI Latin American and Caribbean Conference for Engineering and Technology (LACCEI'2013) "Innovation in Engineering, Technology and Education for Competitiveness and Prosperity" August 14 - 16, 2013 Cancun, Mexico.
62. Hanqi Zhuang, Oren Masory, Zvi Roth, "Result-Oriented Engineering Capstone Designs to Aid Persons with Disabilities", ASEE 2013 Conference, Paper ID #8226, Atlanta, GA, June 23-26, 2013.
61. S. Huang, T. Tanioka, R. Locsin, M. Parker, O. Masory, "Functions of A Caring Robot in Nursing", IEEE NLP-KE, 2011.
60. Shankar, R., Borrás, J., McAfee, F.X., Harris, M., Ploger, D., Masory, O., Behara, R., Impact of Motorola's Vision on FAU's Engineering Curriculum, Conf. on Industry and Education Collaboration, Phoenix, AZ, February 2013.
59. M. Morris, O. Masory, "A Novel Cable-Driven Robot for Rehabilitation", Proceedings Israeli Conference on Robotics, Nov. 19-20, 2008, Herzelia, Israel.
58. A. L. Perez, O. Masory, S. Glegg, R. Coulson, "Analysis of Factors Affecting the Sound Generated by Airboats", Proceedings of the Fourth LACCEI Latin American and Caribbean Conference, Mayagüez, Puerto Rico, June 21 - 23, 2006.
57. O. Masory, L. Malaptias, W. Wright, "Enhanced Fifth Wheel Modelling and Testing" Proceedings SAE 2005 World Congress, paper 2005-1-1045, April 11-14, 2005, Detroit, MI.

56. O. Masory, S. delmas, B. Wright, W. barlett, "Validation of the Circular Trajectory Assumption in Critical Speed", Proceedings SAE 2005 World Congress, paper 2005-01-1189, SP-1930, April 11-14, 2005, Detroit, MI.
55. Ajmera, A., Shankar, R., and Masory, O., "Behavioral Modeling with AMS Designer," BMAS (Behavioral Modeling and Simulation) Conference, San Jose, CA, November 2002
54. Ajmera, A., Masory, O., and Shankar, R., "AMS Designer for Mechatronics," International Cadence User Group Conference, San Jose, September 2002.
53. W. D. Bartlett, B. Wright, O. Masory, B. Schmidt, R. Brach, A. T. Baxter, F. Navin, T. Stanard, "Quantifying the Uncertainty in Various Measurement Tasks Common to Accident Reconstruction", ", Proc. SAE 2002 World Congress, March 4-7, 2000, Detroit, MI, SAE SP-1539 paper.
52. W. Bartlett, W. Wright, O. Masory, "Driver Abilities in Closed Course Testing", Proc. SAE 2000 World Congress, March 6-9, 2000, Detroit, MI, SAE SP-1539 paper 2000-01-0179, in Human Factors in 2000: Driving, Lightning, Seating Comfort and Harmony in Vehicle Systems.
51. O. Masory, J.P. Alfano," Design of a MEMS Six DOF Accelerometer", Proc. 2nd International Conf. On Recent Advances in Mechatronics", May 24-26, 1999, Istanbul Turkey.
50. O. Masory, Xiu Daoxi, "Cross-Coupling Controller Design for a 2-DOF Platform", Proc. 2nd International Conf. On Recent Advances in Mechatronics", May 24-26, 1999, Istanbul Turkey.
49. O. Masory, D. Xiu, "Contour Errors in a New Class of CNC Machine Tools", Proc. WAC 98, Anchoage, Alaska, May 9-14, 1998.
48. I. U. Ojalvo, O. Masory, "Proposed Extensions to Federally Mandated Bumper Testing", 1998 SAE International Congress & Exposition, Feb. 23-26 1998, Detroit, MI.
47. H. Zhuang, L. Liu, O. Masory, "Autonomous Calibration of Hexapod Machine Tool", Proc. ASME International Mechanical Engineering Conf. , MED Vol. 6-2, pp. 443-449, Nov. 1997.
46. R. Shankar, J. Korneluk, M. Patel, M. Martinez, O. Masory, "Microcontroller-Based System Design: An Undergraduate Course for a Diverse Student Population", Proc. Mechatronics '96, San Francisco, June 13-15, 1996.
45. R. Shankar, O. Masory, "A Cross-Disciplinary Course Sequence Useful for Microelectro-Mechanicl Systems", Proc. Mechatronics '96, San Francisco, June 13-15, 1996.
44. H. Zhuang, O. Masory, "Kinematic Calibration of Stewart Platform Using Pose Measurements Obtained by Single Theodolite", Proc. Intelligent Robots and Systems Conf. (IROS), Pittsburg, PA, August 5-9, 1995.
43. A. Zilouchian, O. Masory, "Neural Network Controller for Turning Operation of a Metal Cutting Process", Proc. American Control Conf., Seattle, WA, June 21-23, 1995.
42. O. Masory, J. Yan, "Measurements o Pose Repeatability of a Stewart Platform", Proc. 5th International Symposium on Robotics and Manufacturing, Maui, HI, August 15-17, 1995.
41. O. Masory, V. Kurapati, S. Chenthivel, "A discrete Events Controller Based on Augmented Timed Petri-Nets", Proc. 4th International Conf. on Flexible Automation and Integrated Manufacturing, Blacksburg, VA, May 8-11, 1994
40. O. Masory, J. Yan, "Repeatability Measurements of Stewart Platform", Proc. IEEE Conf. on Robotics and Automation, San Diago, GA, May 8-13, 1994.
39. Wang J., Masory O., "On the Accuracy of Stewart Platform - Part I, The Effect of Manufacturing Tolerances", Proc. IEEE Conf. on Robotics and Automation, Vol. 1, pp. 114-120, Atlanta, GA, May 2-7, 1993.
38. Masory O., Wang J. Zhuang H., "On the Accuracy of Stewart Platform - Part II, Kinematic Calibration and Compensation", Proc. IEEE Conf. on Robotics and Automation, Vol. 1, pp.725-731, Atlanta, GA, May 2-7, 1993.

37. Masory O, Marquis L., Subarminian C. and Kumar A., "Design and Construction of "Space Emulator", Proc. American Control Conference, pp. 1825-1829, San Francisco, CA, June 2-4, 1993
36. Venkatesh K., O. Masory and Pandya A., "A High Level Petri Net Model of Olfactory Bulb", Proc. IEEE International Conf. on Neural Networks, pp. 766-781, San Francisco, CA, March 28-April 1, 1993.
35. Masory O., S. L. Tulshibagwale, "Simulation Study of a Flexible System for Multichip Module Testing", Proc. ASME Winter Annual Meeting - Manufacturing Aspects in Electronics, EEP Vol. 2, pp. 39-46, December 1992.
34. Masory O., Wang J., "Workspace Evaluation of A Stewart Platform", Proc. ASME Design Technical Conf., pp. 337-346, Scottsdale, Arizona, Sep. 13-16, 1992.
33. Masory O. Wang J., "Two-Stage Actuation for CNC Contouring Systems ", Proc. American Control Conf., pp. 375-378, Chicago, June 1992
32. Venkatesh K., O. Masory and J. Wu, "Simulation and Robot Scheduling of a Just-In-time Flexible Automated System Using Timed Petri Nets", Proc. 2nd International Conf. on Automation Technology, AUTOMATION 92, Taipei, Taiwan, pp. 73-79, July 4-6, 1992,.
31. Masory O. and M. Huang, "Kinematic Calibration of CNC Machine Tools Using Closed Kinematic Chain Technique", Proc. 2nd International Conf. on Automation Technology, AUTOMATION 92, Taipei, Taiwan, pp. 351-356, July 4-6, 1992.
30. Masory O., "Tool Wear Modeling using Abductive Networks", Proc. SPIE Applications of Neural Networks, Orlando, Florida, April 1992.
29. Huang M., Masory O., "Robot Accuracy Enhancement Using A Simple Method for Automatic Identification of Kinematic Parameters", Proc. 2nd National Mechanism & Robotics Conference, Cincinnati, Ohio, Nov. 1991.
28. Masory O., "Monitoring Machining Processes Using Multi-Sensor Readings Fused by Artificial Neural Network", Proc. 7th International Conf. on Computer-Aided Production Engineering, Cookeville, TN, pp. 261-270, August, 1991.
27. Masory O., "Detection of Tool Wear Using Multi-Sensor Readings Sensor Fused by Artificial Neural Network", Proc. SPIE Applications of Neural Networks, Orlando, Florida, April 1991.
26. Masory O., Aguirre A.L., "Sensor Calibration Methods: Performance Study", Proc. SPIE Applications of Neural Networks, Orlando, Florida, April 1990.
25. Masory O., Aguirre A.L., "Sensor Calibration Using Artificial Neural Networks", Proc. ASME Winter Annual Meeting - Control Issues in Manufacturing Processes, DSC-Vol. 18, San Francisco, Dec. 1989.
24. Masory O., et. al., "New Research Directions at Florida Atlantic University Robotics Center", Proc. PROCIM, Orlando FL, 1989.
23. Masory O., et. al., "A 2-DOF Active Compliant Gripper for Robotic Applications", Proc. 2nd International CIRP (International Institute for Production Engineering Research) Conf. on New Manufacturing Technology, Cookeville, TN, June 1989.
22. Masory O., Aguirre A.L., "Sensor Calibration Using Artificial Neural Networks", Proc. IEEE International Conf. on Neural Networks, Washington DC, June 1989.
21. Masory O., Sanchez-Vanzzini J.A., Bingham D.N., "Development and Construction of an Inductive Tactile Sensor", Proc PROCIM, Orlando, Nov. 1988.
20. Kirksharian A., Masory O., "A Graphical Interactive Tool for the Solution of the Machining Economics Problem", Proc. ASME International Computers in Engineering Conf., New York, NY, July 31 - August 3, 1988.
19. Masory O., Hsu-Jeng Liu, "A Force Controlled Gripper for Assembly Applications", Proc. JAPAN-USA Symposium on Flexible Automation, Minneapolis, MN, July 1988.

18. Masory O., "Industrial Automation Course for Mechanical Engineers", Proc. American Society Engineering Education Conference, June 1988.
17. Masory O., "Enhancing Robot Positioning Accuracy by Local Interpolation", Proc. North American Manufacturing Research Conference XVI, Urbana, IL May 1988.
16. McDermott M., Masory O., Mooring B.W., "Laboratories for First Course in Modeling and Automatic Control", Proc. American Control Conference, June 1988.
15. McDermott M., Masory O., Mooring B.W. "Laboratories in Modeling and Automatic Control Using Personal Computers", Proc. American Society Engineering Education Gulf-Southeast Section Annual Meeting, San Antonio, Texas, March 17-18, 1988.
14. Chang Po Lam, Masory O., "A Robotic System for Automatic Drilling of Three Dimensional Surfaces", Proc. Society of Manufacturing Engineers Robotic Systems in Aerospace Manufacturing Conference, Fort Worth, Texas, September 1987.
13. Zimmerman D. S., Masory O., "Evaluation of Conventional Computer Control Algorithms for a Robotic Arm", Proc. MOTORCON-87 Conference, Long Beach, CA, September 1987.
12. Masory O., "Improving Contour Accuracy of NC/CNC Machine Tools Using Real-Time Cutting Force Measurements", Proc. IX International Conference on Production Research, Cincinnati, Ohio, August 1987.
11. Masory O., Shield Bao-Hsin Lin, "Optimal, Variable Gains Adaptive Control System for Turning", Proc. North American Manufacturing Research Conference XV, Bethlehem, Pennsylvania, May 1987.
10. Masory O., Jakopac, D., "ASSEMBLE a PASCAL Based Robot Programming Language", Proc. JAPAN-USA Symposium on Flexible Automation, Osaka, Japan, July 1986.
9. Masory O., "The Effect of Velocity Feed Forward Loop on Contour Accuracy", Proc. MOTORCON-85 Conference, Chicago, IL, October 1985.
8. Masory O., "A Controller for a Pick-N-Place Robotic System", Proc. ASME Computers in Engineering Conference, Vol. 2, pp. 186-191, Las Vegas, August 1984.
7. Koren Y., Masory O., "Self-Tuning Adaptive Control System for Machining", Proc. 5th International Conference on Production Engineering, Japan, July 9-19, 1984.
6. Masory O., Jakopak D., "An Experimental Robot Based Assembly Cell", Proc. ASME Computers in Engineering Conference, Vol. 2, pp. 15-21, Chicago, August 1983.
5. Agrawal A., Epstein B., Jordan B., Masory O., "Machine Vision Based on Fiber Optic Imaging", Electronic Imaging, August 1983.
4. Levi R., Koren Y., Malkin S., Masory O., "Probabilistic Model for Cutting Tool Fracture Control", Proc. North American Manufacturing Research Conference IX, May 1981.
3. Masory O., Koren Y., "3-D Circular Interpolator for CNC Manufacturing Systems", Proc. of the CIRP (International Institute for Production Engineering Research) Seminar on Manufacturing Systems, Vol. 8, No. 3, 1979.
2. Masory O., Koren Y., Schachrai A., "CNC System for a Laser-Beam Cutter", Proc. of the CIRP (International Institute for Production Engineering Research), Seminar of Manufacturing Systems, Vol. 8, No. 2, pp. 115-125, 1979.
1. Masory, O., Koren, Y., "The Direct Search Method in CNC Interpolators", ASME Technical Paper, 78-WA/Prod-40, 1978.

3.3 Books

1. Author of four lessons (out of 26) of PLATO Statics courseware distributed by CDC.
2. Author of the control chapter in

3.4 Other Publications and technical reports

68. Oren Masory, "On the Measurement of the Coefficient of Friction of Walking Surfaces", Proc. 30th Florida Conference on Recent Advances in Robotics, May 11-12, 2017.
67. Oren Masory, "Comments on ASTM F2508-13", Proc. 30th Florida Conference on Recent Advances in Robotics, May 11-12, 2017.
66. Anthony Paolino, Oren Masory, "Human Stability on an oscillating Platform", Proc. 29th Florida Conference on Recent Advances in Robotics, May 12-13, 2016.
65. Oren Masory, "Difficulties in Measuring Coefficient of Friction", Proc. 29th Florida Conference on Recent Advances in Robotics, May 12-13, 2016.
64. Barret Hendricks, Oren Masory, "Development and Validation of a Portable Digital Variable Inclination Slip Tester", 2015 Florida Conference on Recent Advances in Robotics, FIT May 14-15, 2015.
63. Oren Masory and Bill Wright, "Error Analysis for Three Different Methods Of Determining Drag Factor, <http://tarorigin.com/art/Omasory/Dragfactor/>
62. Oren Masory, Lea Dupont, "Human Stability on Step Ladders", 2013 Florida Conference on Recent Advances in Robotics, FANU-FSU. May 16-17, 2013.
61. Oren Masory, "Failure of Extension Fiberglass Ladders Due to Manufacturing Defects", 2013 Florida Conference on Recent Advances in Robotics, FANU-FSU. May 16-17, 2013.
60. Kyle Schau, Oren Masory, "Passenger Ejection from Golf Cart Rear Seat", 2013 Florida Conference on Recent Advances in Robotics, FANU-FSU. May 16-17, 2013.
59. O. Masory, Wade Bartlett, Bill Wright, "Motorcycle Accident Reconstruction Part I - Physical Models", Proc. 24nd Florida Conference on Recent Advances in Robotics, May 10-11, 2012.
58. O. Masory, H. Peyrard, Wade Bartlett, Bill Wright, "Motorcycle Accident Reconstruction Part II - Self Learning Models", Proc. 24nd Florida Conference on Recent Advances in Robotics, May 10-11, 2012.
57. O. Masory, J. Latapie, "Design and Prototyping of an Interface Tool for Aphasic Patients" Proc. 24nd Florida Conference on Recent Advances in Robotics, May 10-11, 2012.
56. O. Masory, R. Calvel, "A controller for Micro-Fluidics Devices", Proc. 22nd Florida Conference on Recent Advances in Robotics, May 20-21, 2010.
55. O. Masory, V. Loisel, "A passive device for upper limbs rehabilitation", Proc. 22nd Florida Conference on Recent Advances in Robotics, May 20-21, 2010.
54. O. Masory, Y. Tobie, "Design Modifications for a Planar Cable-Driven Rehabilitation Robot", Proc. 22nd Florida Conference on Recent Advances in Robotics, May 21-22, 2009.
53. Oren Masory, "Failure of Extension Fiberglass Ladders Due to Manufacturing Defects", 2013 Florida Conference on Recent Advances in Robotics, FANU-FSU. May 16-17, 2013.
52. M. Morris, O. Masory, "Planar Cable-Driven Rehabilitation Robot", Proc. 21th Florida Conference on Recent Advances in Robotics, May 8-9, 2008.
51. O. Masory, S. Poncet, "A note on Head Acceleration During Low Speed Rear-End Collision", Proc. 21th Florida Conference on Recent Advances in Robotics, May 8-9, 2008.
50. O. Masory, N. Putod, "Determination of Impact Force and Crush Energy Using Abductive Networks", Proc. 20th Florida Conference on Recent Advances in Robotics, May 31-June 1, 2007.

49. A. Perez, O. Masory, S. Glegg, R. Coulson, "Analysis of Factors Contributing to the Sound Generated by Airboats", Proc. 19th Florida Conference on Recent Advances in Robotics, May 25-26, 2006
48. O. Masory, et.al. "Experimental Determination of the Translational Acceleration Values for a Spinning Vehicle", Proc. 19th Florida Conference on Recent Advances in Robotics, May 25-26, 2006.
47. Oren Masory, "Validation of Critical Speed Formula", IPTM – Institute of Police Management and Technology, University of North Florida, Jacksonville, April 1, 2004.
46. Oren Masory, Stephan B. Rink, "Step Ladder Instability and Dynamic Loading", Proc. 17th Florida Conference on Recent Advances in Robotics, May 6-7, 2004.
45. Oren Masory, Grainer Thomas, "A Simple Model for the Determination of Jackknifing", Proc. 17th Florida Conference on Recent Advances in Robotics, May 6-7, 2004.
44. O. Masory, Loris Malaptias, William Wright, "Fifth Wheel Modelling and Testing", Proc. 17th Florida Conference on Recent Advances in Robotics, May 6-7, 2004.
43. O. Masory, Johan Benoit, Bill Wright, Wade Bartlett, "Data Extraction from Sensory Data Obtained During Driving in Closed Course", Proc. 16th Florida Conference on Recent Advances in Robotics, May 8-9, 2003.
42. O. Masory, Cedric Favrot, "Determination of Impact Forces and Crush Energy Using Sensory Data and Comparison with Other Algorithms", Proc. 15th Florida Conference on Recent Advances in Robotics, May 23-24, 2002.
41. D. Wang, O. Masory, A Zilouchian, "Frequency Domain Performance Analysis of NN for Linear Systems", Proc. 9th Conf. on Recent Advances in Robotics, FAU, April 1996.
40. D. Xiu, O. Masory, "Contouring Errors in a New Class of Machine Tools", Proc. 9th Conf. on Recent Advances in Robotics, FAU, April 1996.
39. Y. Hua, O. Masory, "Vibration Analysis of Stewart Platform", Proc. 9th Conf. on Recent Advances in Robotics, FAU, April 1996.
38. Shankar, R., and Masory, O., "A Cross-Disciplinary Course Sequence Useful for Microelectro-Mechanical Systems," NSF Conference on 'Preparing the Leaders for Mechatronics Education', San Francisco, CA, June 1996.
37. Shankar, R., Korneluk, J., Patel, M., Martinez, M., and Masory, M., "Microcontroller-Based System Design: An Undergraduate Course for a Diverse Student Population," NSF Conference on 'Preparing the Leaders for Mechatronics Education', San Francisco, CA, June 1996.
36. H. Zhuang, O. Masory, J. Yan, "Calibration of Stewart Platform with a Single Theodolite", Proc. 8th Conf. on Recent Advances in Robotics, UCF, April 1995.
35. E. Djaja, D. Xiu, O. Masory, A. Zilouchian, "Forward Kinematics of Parallel Manipulator Using Neural Networks", Proc. 8th Conf. on Recent Advances in Robotics, UCF, April 1995.
34. A. Zilouchian, O. Masory, "Neural Network Controller for Turning Operation of a Metal Cutting Process", Proc. 8th Conf. on Recent Advances in Robotics, UCF, April 1995.
33. O. Masory, "Part Geometry Verification Using Computer Vision", MOTOROLA, Dec. 1993.
32. O. Masory, "Part Geometry Verification Using Massive Parallel Computer", MOTOROLA, August 1993.
31. O. Masory, "Development of an Automatic System for Mapping of Electromagnetic Field Intensity", Sensormatic Electronics Corp., May-August 1992,.
30. P. Kanwar, O. Masory, "Identification of Manipulator Kinematic Parameters Using Genetic Algorithms", pp. 39-41, Proc. 7th Conf. on Recent Advances in Robotics, pp. 34-38 UF, April 1994.
29. O. Masory, "Vibration Analysis of Stewart Platform", pp. 1-5, Proc. 7th Conf. on Recent Advances in Robotics, pp. 34-38 UF, April 1994.

28. O. Masory, "An Integrated Approach to Simulation, Control and Real Time Diagnostic of Manufacturing Systems Based on Adaptive Augmented Timed Petri Net", pp. 63-70, Proc. 7th Conf. on Recent Advances in Robotics, pp. 34-38 UF, April 1994.
27. H. Zhuang, O. Masory, "A Kinematic Model for the Calibration of Parallel Manipulators", Proc. 7th Conf. on Recent Advances in Robotics, pp. 34-38 UF, April 1994.
26. Masory O., Marquis L., Subramanian C., Kumar A., "Design and Construction of Space Emulator", Proc. 6th Conf. on Recent Advances in Robotics, pp. 1A 3:1-3:8, UF, April 1993.
25. Masory O., Kumar A., "Optimal Selection of Manufacturing Tolerances for Serial Mechanisms", Proc. 6th Conf. on Recent Advances in Robotics, pp. 1B 2:1-2:11, UF, April 1993.
24. Kurapati V., Subramanian C., Masory O., "A Sequence Controller Based on Augmented Timed Petri Net", Proc. 6th Conf. on Recent Advances in Robotics, pp. 1C 1:1-1:7, UF, April 1993.
23. Yan Jiahua, Masory O., "Spatial Coordinate Measurement Using One Theodolite", Proc. 6th Conf. on Recent Advances in Robotics, pp. 2C 1:1-1:7, UF, April 1993.
22. Kumar A., Subramanian C., Masory O., "On the Design of a 6-DOF force/Torque Sensor", Proc. 5th Conf. on Recent Advances in Robotics, pp. 157-164, FAU, June 1992.
21. Masory O., S. L. Tulshibagwale, "Simulation Study of a Multichip Module Testing Facility", Proc. 5th Conf. on Recent Advances in Robotics, pp. 249-268, FAU, June 1992.
20. Venkatesh K., O. Masory and J. Wu, "Simulation and Robot Scheduling of a Just-In_time Flexible Automated System Using Timed Petri Nets", Proc. 5th Conf. on Recent Advances in Robotics, pp. 269-280, FAU, June 1992.
19. Marquis L., Masory O., "On the Control of a Stewart Platform", Proc. 5th Conf. on Recent Advances in Robotics, pp. 295-305, FAU, June 1992.
18. Wang J., Masory O., "The Effect of Manufacturing Tolerances on Stewart Platform Accuracy", Proc. 5th Conf. on Recent Advances in Robotics, pp. 165-178, FAU, June 1992.
17. Masory O., "Tool Wear Modeling by Abductive Network Using Cutting Force Measurements", Proc. 5th Conf. on Recent Advances in Robotics, pp. 560-567, FAU, June 1992.
16. Venkatesh K., O. Masory and Pandya A., "Modeling of Biological Neural Networks with High Level Petri Nets", Proc. 5th Conf. on Recent Advances in Robotics, pp. 568-575, FAU, June 1992.
15. Masory O., Huang M., "Kinematic Calibration of CNC Machine Tools Using a Closed Kinematic Chain Technique", Proc. 5th Conf. on Recent Advances in Robotics, pp. 592-601, FAU, June 1992.
14. Wang J, Masory O, "Workspace Evaluation of A Stewart Platform", Proc. 4th Conf. on Recent Advances in Robotics, FAU, May 1991.
13. Shao S., Masory O., Wells D.M., "Performing Robot Inverse Kinematic by Artificial Neural Network", Proc. 4th Conf. on Recent Advances in Robotics, FAU, May 1991.
12. Shao S., Masory O., "Development of Telerobotic System", Proc. 4th Conf. on Recent Advances in Robotics, FAU, May 1991.
11. Kumar A., Masory O., "The Effect Of Manufacturing Tolerances On An Open Chain Mechanism", Proc. 4th Conf. on Recent Advances in Robotics, FAU, May 1991.
10. Ming Z. H., Masory O., "Robot Accuracy Enhancement Using a Simple Method for Automatic Identification of Kinematic Parameters", Proc. 4th Conf. on Recent Advances in Robotics, FAU, May 1991.
9. Masory O., "Connectionist Model for Tool Wear", Proc. 3rd Conf. on Recent Advances in Robotics, FAU, May 1990.
8. Kumar A., Masory O., "Relationship Between Manufacturing Tolerances and Robot Kinematic Parameters", Proc. 3rd Conf. on Recent Advances in Robotics, FAU, May 1990.
7. Wang J., Masory O., "A New Control Strategy for Two-Stage Actuation", Proc. 3rd Conf. on Recent Advances in Robotics, FAU, May 1990.

6. Masory O., "Real-time, in-process computer vision inspection system for holes drilled by Abrasive Water Jet", Technical Report, Pratt & Whitney, West Palm Beach, Florida, 1990
5. Masory O., "Acoustic Emission sensor for monitoring the wear of Abrasive Water Jet carbide nozzle", Technical Report, Pratt & Whitney, West Palm Beach, Florida, 1990
4. Masory O., Aguirre A.L., "Automatic Drilling of Aircraft Panels", Proc. 2nd Conf. on Recent Advances in Robotics, FAU, May 1989.
3. G. Felsenstein, Masory O. I. Amir and S.W. Searcy "Development of a Portable Flowmeter for Use in Irrigation Systems", Technical Report, Texas Water Resources Institute, September 1986.
2. Masory O.,
"Using tracing technology for automatic inspection by Coordinate Measuring Machines", Technical Report, Gould Inc., 1982.
1. Masory O., "Programming and simulation of robotic assembly cells", Technical Report, Gould Inc., 1981.

IV. Research

4.1 Sponsored Research

- "Results-Oriented Multidisciplinary Capstone Design to Aid Persons with Disability", NSF, 2010, \$125,000, Co-PI.
- "Measurement and Characterization of Sound Generated by Airboats". The Florida Fish and Wildlife Commission, Division of Law Enforcement, Office of Boating and Waterway, 2004, \$139,193, PI.
- "Part Geometry Verification Using Computer Vision", MOTOROLA, Sep.-Dec. 1993, \$2,625, PI.
- "Part Geometry Verification Using Massive Parallel Computer", MOTOROLA, June-July 1993, \$2,625, PI.
- "Development of an Automatic System for Mapping of Electromagnetic Field Intensity", Sensormatic Electronics Corp., May-August 1992, \$24,887, PI.
- "Rapid Prototype MCM Test Engineering Systems", NSF, \$50,000, January-June 1991, \$50,000, Co-PI.
- "The development of Composite Varnishes for Wooden Musical Instruments", Texas Advance Technology Program, \$280,000, June 1988- June 1990, Co-PI.
- "Portable Flow Meter", Texas Water Resource Institute, \$5000, 1986, PI.
- "Wire Transport, Guidance and Wire Quality", AGIE, \$95,000, 1986, Co-PI.
- "Instrumented Ceramic Hand Form", Surgikos, \$45,775, 1985, Co-PI.
- "Mobil Robot", Texas Engineering Experiment Station, \$4,000, 1985, PI.
- "A Pneumatic Servo Drive", Texas Engineering Experiment Station, \$4,000, 1985, PI.
- "Automatic Drilling of Aircraft Panels by Robot Manipulator", General Dynamics, \$10,000, 1986, PI.
- "PLATO Statics Courseware", Control Data Corp., \$500,000, 1985, Co-PI.

V. Professional Service

5.1 Membership in Professional Societies

- ASEE - American Society of Engineering Education
(Acoustics and Vibration Committee Jan. 89 - Dec 89)
- SME - Society of Manufacturing Engineers.

(Member of the Scientific Committee of NAMRI - North American Manufacturing Research Institution (1990 - 2000).

RESNA – Rehabilitation Engineering and Assistive Technology Society. Member of the committee on wheel chairs standard (2023-present)

ASTM – American Society for Testing and Materials – member F-13 Committee - Pedestrian/Walkway Safety and Footwear member

SAE – Society of Automotive Engineering (2000-present)