GRADUATE STUDENTS SUPERVISED By: Professor Ali Meghdari

♦ Master of Science (*M.Sc.*) Thesis Students ♦

Sharif University of Technology, School of Mechanical Engineering, Tehran, Iran.

[1-2] M. Arefi and M. Mahmoudian, **"Modeling, Design, and Fabrication of the Sharif Artificial Hand: Biomechanical Issues"**, 8/1990, Biomechanical Engineering Division.

[3-4] B. Vosoughi-Vahdat and R. Shahghadami, (Co-Advised with Dr. Edmond Zahedi), **"Modeling, Design, and Fabrication of the Sharif Artificial Hand: Bioelectronics Issues"**, 12/1990, Bioelectronics Engineering Division.

[5] H. Haashem Alhoseyni, **"Computer Graphics Simulation of the PUMA-560 Robot Kinematics and Dynamics"**, 9/1990, Applied & Solid Mechanics Division.

[6] I. Hashemlou, **"Kinematics & Dynamics Analysis of a Four-Legged Locomotion System"**, 9/1990, Applied & Solid Mechanics Division.

[7] H. Sayyaadi, **"Theory of Contact and Optimization in Trajectory Planning for Finger-Like Dexterous Manipulators"**, 9/1990, Applied & Solid Mechanics Division.

[8] M. Ghasempouri, **"Modeling, Dynamics and Control of Elastic Manipulators"**, 5/1991, Applied & Solid Mechanics Division.

[9] S. Raghibi-Zadeh**,"Trajectory Generation, Position and Force Control Theories of Robots with an Emphasis on Adaptive Control"**, 6/1991, Applied & Solid Mechanics Division.

[10] F. Aghili, (Co-Advised with Dr. Mohammad Haghpanahi), **"Design & Control of an Above-Elbow Prosthesis Based on Combination of E.P.P. Method and Extraction of Motion Classes by Pattern Recognition"**, 3/1992, Biomechanical Engineering Division.

[11] R. Davoodi, **"Applying Engineering Techniques in the Analysis of Human Birth Process"**, 6/1992, Biomechanical Engineering Division.

[12] M. Jafarian, **"Modeling, Design, Fabrication and Analysis of Pneumatically Actuated Artificial Muscles"**, 1/1993, Applied & Solid Mechanics Division.

[13] A. Sekhavat, **"Swing-Free Motion of a Suspended Object from the End-Effector of an Industrial Robot"**, 2/1994, Applied & Solid Mechanics Division.

[14] S. Sarjami, (Co-Advised with Prof. Mohammad H. Kargarnovin), **"Application of Analytical Methods and Numerical Simulation in Orthodontics: Study of Arch-Wire System of Forces and Teeth Movements"**, 9/1994, Biomechanical Engineering Division.

[15] J. Mobarezpour, (Co-Chairman of the Thesis Committee), **"Human Body's Control Strategy in Standing Mode"**, 12/1996, Biomechanical Engineering Division.

[16] A. A. Mahdavi-Jalal, **"Minimizing Amplitude of Oscillation of a Flexible Beam During Transport by a Robot"**,1/1997, Open University, Dept. of Mechanical Engineering, Tehran.

[17] M. Naderian,(Co-Advised with Dr. Gholamreza Vossoughi and Dr. Khatiboleslam Sadrnejad), **"Application of NiTi Shape Memory Alloys for Actuation of an Artificial Hand"**, 3/1997, Applied & Solid Mechanics Division.

[18] F. Barazandeh, **"Design and Fabrication of a Series of Modular Robotics Grippers Equipped with a Quick Change System"**, 10/1997, Applied & Solid Mechanics Division.

[19] M. Shahparian**, "Kinematics and Dynamics Modeling of Parallel Manipulators"**, 9/1997, Applied & Solid Mechanics Division.

[20] M. Khazraie, **"Solving Non-Linear Dynamics Model of Joints in Human Body"**, 6/1997, Biomechanical Engineering Division.

[21] H. Shah Ali, **"Three Segment Dynamic Model of Knee Joint in Two-Dimensional Space"**, 6/1997, Biomechanical Engineering Division.

[22] M. Saaedi, **"Design and Fabrication of a Feeding Mechanism to Automate the Automobile Tire Assembly Process"**, 9/1997, Manufacturing Engineering Division.

[23] J. Vatankhah, **"Design and Fabrication of a 3-D.O.F. Wrist Force Sensor"**, 10/1997, Applied & Solid Mechanics Division.

[24] H. Javadi, (Co-Advised with Dr. Hamid R. Katouzian and Dr. Mohammad T. Ahmadian), **"F.E.M. Analysis of Stress Wave Propagation at Heel Strike on the Mechanical Connection of Bone and Artificial Joint"**, 12/1997, Biomechanical Engineering Division.

[25] R. J. Samarghandi, (Co-Advised with Dr. Farzam Farahmand), **"On the Design and Fabrication of Orthopadic Implants"**, 3/1998, Biomechanical Engineering Division.

[26] M. Afrough, **"Investigation of Robot Kinematics Calibration Methods as Applied to MA-3000 Manipulator"**, 5/1999, Applied & Solid Mechanics Division.

[27] H. Fakur Alagheband, (Co-Advised with Dr. Farzam Farahmand), **"Force Analysis of the Knee Joint During Rise from Deep Squat"**, 6/1999, Biomechanical Engineering Division.

[28] A. R. Samadi, **"Design and Animation of Bicycles for Women of Islamic Culture"**, 6/1999, Biomechanical Engineering Division.

[29] A. A. Forough-Nasiraei, **"Design and Fabrication of a Hospital Nursing Robot"**, 9/2000, Biomechanical Engineering Division.

[30] A. H. Bahrami, **"Mathematical Modeling and Analysis of the Normal, Degenerated, and Fused Cervical Spine"**, 11/2001, Applied & Solid Mechanics Division.

[31] A. Nezafat, **"Investigation of Robot Kinematics in Braced Manipulators"**, 03/2002, Applied & Solid Mechanics Division.

[32] M. Amir Hosseini, **"Kinematics and Dynamics of an Underwater Remotely Operated Vehicles (UROV)"**, 03/2002, Applied & Solid Mechanics Division.

[33] M. Arianpour, **"Kinematics Investigation and Analysis of the Jumping Process"**, 03/2002, Applied & Solid Mechanics Division.

[34] N. Dadkhah Tehrani, (Co-Advised with Prof. Nasser Sadati), **"Intelligent Approach in Satellite Attitude Control"**, 09/2002, Applied & Solid Mechanics Division.

[35] Azam A. Toosi, (Co-Advised with Dr. Mohammad H. Saeidi), **"Energy Flow Optimization Model in a Housing Unit"**, 02/2003, Energy Conversion Division.

[36] M. R. Alam, **"Real-Time Compensatory Manipulator Motion Planning for Stabilizing a Mobile Manipulator"**, 07/2003, Applied & Solid Mechanics Division.

[37] M. Nakhaee-Nejad, (Co-Advised with Dr. Davood Naderi) **"On the Design and Motion Analysis of a Snake-Like Manipulator"**, 07/2003, Applied & Solid Mechanics Division.

[38] H. R. Chabok, **"On the Design and Fabrication of a Master/Slave Manipulator for Glove Box Environment"**, 3/2003, Manufacturing Engineering Division.

[39] H. Borhan, (Co-Advised with Dr. Gholamreza Vossoughi), **"Modeling and Control of an Underwater Remotely Operated Vehicles (UROV)"**, 03/2003, Applied & Solid Mechanics Division.

[40-41] A. Lotfi, and S. H. Mahboobi, **"Design Characteristics, Kinematics and Dynamics Modeling of a Shrimp Rover for Unstructured Environments"**, 06/2004, Applied & Solid Mechanics Division.

[42] A. Kiapour, (Co-Advised with Dr. Farzam Farahmand), **"Modeling and Analysis of Spine Muscles in Back when Creating Stability at the Presence of External Forces"**, 2/2004, Biomechanical Engineering Division.

[43] M.R. Deylami, (Co-Advised with Prof. K.N. Sadrnejad), **"Design and Fabrication of an Artificial Esfancter using NiTi Shape Memory Alloy**", 8/2004, Biomechanical Engineering Division.

[44] R. Karimi, **"Dynamic Analysis and Control of Human Double Leg Jumps"**, 12/2004, Applied & Solid Mechanics Division.

[45] H. Nejat Pishkenari, (Co-Advised with Dr. Nader Jalili), **"Acquisition of High Precision Images for Non-contact Atomic Force Microscopy via Direct Identification of Sample Height"**, 03/2005, Applied & Solid Mechanics Division.

[46] B. Beigzadeh, (Co-Advised with Dr. Majid Nili Ahmadabadi), **"Kinematical and Dynamic Analysis of Biped Robots' Locomotion using Dynamic Object Manipulation Approach**", 03/2005, Applied & Solid Mechanics Division.

[47] A. Afshari, **"New Form of Jacobian Matrix and Equations of Motion for a 6 D.O.F. Cable-Driven Parallel Robot using Constrained Variables**", 12/2006, Applied & Solid Mechanics Division.

[48] M. Rajaee, (Co-Advised with Prof. Saeed Sohrabpour), **"Dynamic Analysis and Control of an Spherical Robot Mechanism",** 08/2006, Applied & Solid Mechanics Division.

[49] M. Saghafi, (Co-Advised with Dr. Nader Jalili), **"Electrical Equivalent Circuit of Multi-Mode Flexible Beams with Piezoelectric Elements",** 10/2006, Applied & Solid Mechanics Division.

[50] S. Eslami, (Co-Advised with Dr. Davood Naderi), **"Increasing Stability of Mobile Manipulators using Dynamic Compensation"**, 12/2006, Applied & Solid Mechanics Division.

[51] A.R. Mirbagheri, (Co-Advised with Dr. Farzam Farahmand), **"Modeling and Optimum Design of a Robot Mechanism to Assist Laproscopic Surgery",** 03/2007, Biomechanics Division.

[52] S. H. Tamaddoni, (Co-Advised with Prof. Saeed Sohrabpour), **"Dynamic Modeling and Analysis of Running in Humanoid Robots",** 06/2007, Biomechanics Division.

[53] P. Zandyyeh, (Co-Advised with Dr. Mohmmad T. Ahmadian), **"Visual Quality Control of Slabs in Hot Rolling Mill using Neuro-Fuzzy Network"**, 12/2007, Applied & Solid Mechanics Division.

[54] A. R. Mohammadi, **"Design and Fabrication of Brachiation Robot"**, 12/2007, Applied & Solid Mechanics Division.

[55] S. Radmard, (Co-Advised with Prof. Hassan Zohoor), **"Design, Modeling and Control of Robotic Fish using IPMC's"**, 11/2008, Applied & Solid Mechanics Division.

[56] H. Zomorrodi Moghaddam, (Co-Advised with Dr. Farzam Farahmand), **"Measurement and Analysis of Human Body Balance Strategy on a Stabilo-Meter"**, 11/2008, Biomechanics Division.

[57] M. Shahi, **"Design, Simulation and Control of the Robotic Fish"**, 01/2009, Applied & Solid Mechanics Division.

[58] M. Mansouri Boroujeni,**"Haptic Device Application in Virtual Training and Persian Calligraphy"**, 01/2009, Mechatronics Division, SUT International Campus, Kish Island.

[59] M. Paziresh, (Co-Advised with Dr. Saeed Bagheri), **"Design and Fabrication of a Three-Dimensional Incoherent Hologram of the Sharif University of Technology, International Campus-Kish Island's Logo"**, 06/2009, Mechatronics Division, SUT International Campus, Kish Island.

[60] H. Babahosseini, **"Modeling and Control of Manipulation Process of Nanoparticles by AFM"**, 02/2010, Applied & Solid Mechanics Division.

[61-62] V. Yaghoubi Nasrabadi and H. Mohammadi, (Co-Advised with Dr. Saeed Bagheri) **"Design of a Prototype 3D Flexible Endoscopy System Based on Digital Holography"**, 07/2010, Applied & Solid Mechanics Division.

[63] A. R. Nemati-Estahbanati, **"Experimental Investigation of Swarm Robots Motion"**, 09/2010, Applied & Solid Mechanics Division.