



M.J.Mirshojaeian Hosseini

Mechatronic Engineer

Iranian
1987/5/20
Single

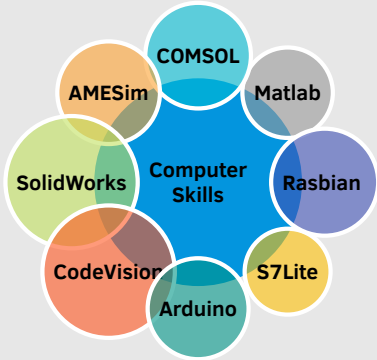
 (+98) 915 3086302



 mj.mirshojaeian@gmail.com

Skills

Overview



Programming

Python

LaTeX

C • C++ • Fortran

Research Interests

Organic Electronics
System Biology
Bio 3D Printing
Robotics
Model Predictive Controllers
System Modeling and Identification
Fault Detection and Identification
Actuation Systems

Education

- 2015 - Present **PhD, Control Engineering** (Quit) Ferdowsi University of Mashhad, Iran
- 2011 - 2013 **M.Sc., Mechatronic Engineering** K.N. Toosi University of Technology, Iran
Design, Simulation and Control of an Electro-Hydrostatic Actuator and Improvement of Its Performance
Supervisor: Dr. Mahdi Aliyari Shoorehdeli
- 2005 - 2010 **B.Sc., Mechanical Engineering** Ferdowsi University of Mashhad, Iran
Analysis and examination of governing Equations of DC and AC Motors
Supervisor: Dr. Alireza Akbarzadeh Tootoonchi

Academic Experience

- October 2017 - Present **Research Assistant** Mashhad University of Medical Science
Supervisor: Dr.Seyed Ali Musavi Shaegh
- Design and Fabrication of *Microfluidic Test Stand* based on WAGO Ethernet PLC and Festo pneumatic valves
- October 2017 - Present **Research Assistant** Mashhad University of Medical Science
Supervisor: Dr.Seyed Ali Musavi Shaegh
- Design and Fabrication of *Telemedicine Device* based on Alborz Patient Monitor and raspberry pi
- June 2017 - Present **Research Assistant** Mashhad University of Medical Science
Supervisor: Dr.Seyed Ali Musavi Shaegh
- Design and Fabrication of *Bio 3D Printer* based on Syringe Nuzzle and Modified-Marlin Firmware
- 2010 - 2013 **Research Assistant** K.N.Toosi University of Technology
Supervisor: Dr.Mahdi Aliyari Shoorehdeli
- Development of *electro-hydrostatic actuation system* to reduce energy consumption and enhancement of dynamic response
- 2009 - 2011 Faculty of Engineering, Ferdowsi University
- Designing a novel *DC motor characterizator*. This new equipment has now been patented (Iran patent # 72956)

Industrial Experience

- 2016 - Present **Mechatronic Engineer** NAMEEC
- Design and Fabrication of *FDM 3D Printer* based on Delta and Cartesian Structures
- 2014 - 2015 **Mechatronic Engineer** NAMEEC
- Design, Fabrication and Control of *First Generation of Tilt-Rotor AUV*

Teaching Experience

2017	Teacher Assistant	Ferdowsi University of Mashhad
	<ul style="list-style-type: none">• Model Predictive Control	
2015	Teacher Assistant	Ferdowsi University of Mashhad
	<ul style="list-style-type: none">• Adaptive Control	
2014	Instructor	Khorasan Institute of Higher Education
	<ul style="list-style-type: none">• Actuation Systems	
2011	Teacher Assistant	K.N.Toosi University of Technology
	<ul style="list-style-type: none">• Industrial Control	

Publications

Mohammad Javad Mirshojaeian Hosseini, Mahdi Aliyari Shoorehdeli, "Analysis and examination of the factors contributing to rapidness of response time in non-linear model of electro-hydrostatic actuator," ISC Journal of Solid and Fluid Mechanics, 2014, Vol.4, No.1, pp.11-23 (article in Farsi with an abstract in English)

Mohammad Javad Mirshojaeian Hosseini, Mahdi Aliyari Shoorehdeli, " Multidisciplinary modeling and position tracking control of an electro-hydrostatic actuator using a novel adaptive fuzzy-PID controller,"Int. J. Advanced Mechatronic Systems", 2014, Vol. 6, No. 1.

M. J. Mirshojaeian Hosseini, S. Alidoosti and M. A. Shoorehdeli, "Multidisciplinary modeling and position control of an electro-hydrostatic actuation system using an adaptive PID controller based on neurofuzzy network," The 3rd International Conference on Control, Instrumentation, and Automation, Tehran, 2013, pp. 149-154

Honors

November 2017	"Iran Darya" The 3rd Maritime National Festival	Iran
	<ul style="list-style-type: none">• 3rd Place For Novel Design and Fabrication of Tilt-Rotor AUV	
March 2016	INNOCUP	Iran
	<ul style="list-style-type: none">• Praiseworthy For Novel Design and Fabrication of Tilt-Rotor AUV	
2013	K.N.Toosi University of Technology	Iran
	<ul style="list-style-type: none">• Ranked 1st Based on GPA Among 21 M.Sc. Mechatronic Students of K.N. Toosi University of Technology	
2008	Microsoft Certified Professional (MCP)	
	<ul style="list-style-type: none">• Microsoft Certified System Administrator (MCSA), MCP ID # 6027811	
2008	Microsoft Certified Professional (MCP)	
	<ul style="list-style-type: none">• Microsoft Certified System Engineer (MCSE), MCP ID # 6027811	