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RESEARCH INTERESTS

- Control Theory and Applications
- Adaptive Learning Control and Optimization
- Safety-Critical Control and Stability Analysis
- Artificial Intelligence and Machine Learning

EDUCATION

- 09/2022 - Present **Ph.D. in Electrical Engineering | Northeastern University, Boston, MA**
- **Faculty Advisor:** Dr. Laurent Lessard
 - **Current GPA:** 4.00/4.00
- 09/2017 - 01/2020 **M.Sc. in Mechanical Engineering | University of Isfahan, Iran**
- **Thesis Title:** Active Fractional-Order Sliding Mode Control of Flexible Spacecraft Considering Actuators' Saturation
 - **Faculty Advisors:** Dr. Maryam Malekzadeh and Dr. Alireza Ariaei
 - **Honors:** Ranked 1st in the class of Mechanical Engineering
 - **CGPA:** 3.88/4.00
- 09/2013 - 07/2017 **B.Sc. in Mechanical Engineering | Fasa University, Fars, Iran**
- **Thesis Title:** Control Under External Disturbance Using Disturbance Observers
 - **Faculty Advisor:** Dr. Mohamadreza Homayounzade
 - **Honors:** Ranked 1st in the class of Mechanical Engineering
 - **CGPA:** 3.59/4.00
- 09/2009 - 06/2013 **Diploma in Mathematics and Physics | Sadi High School, Isfahan, Iran**
- **Honors:** Ranked 1st in the class of Mathematics and Physics
 - **CGPA:** 19.30/20

PUBLICATIONS

Journal Papers:

- **Milad Alipour**, Maryam Malekzadeh, and Alireza Ariaei, "Active fractional-order sliding mode control of flexible spacecraft under actuators saturation," *Journal of Sound and Vibration*, 2022. DOI: <https://doi.org/10.1016/j.jsv.2022.117110> (4 Citations)
- **Milad Alipour**, Maryam Malekzadeh, and Alireza Ariaei, "Practical fractional-order nonsingular terminal sliding mode control of spacecraft," *ISA Transactions*, 2022. DOI: <https://doi.org/10.1016/j.isatra.2021.10.022> (7 Citations)
- Mohamadreza Homayounzade, and **Milad Alipour**, "Output feedback adaptive control of dynamically positioned surface vessels: a disturbance observer-based control approach," *International Journal of Robotics and Automation*, vol. 34, no. 4, 2019. DOI: <http://dx.doi.org/10.2316/J.2019.206-5572> (2 Citations)

LANGUAGES AND SKILLS

- Languages** English (Fluent) (TOEFL iBT: 104 - R: 27, L: 30, S: 27, W: 20) - Persian (Native)
- Software Skills** Python - MATLAB and Simulink - \LaTeX - C++ - Microsoft Office - LabVIEW - SolidWorks - AutoCAD - Adobe Photoshop
- Operating Systems** MacOS - Microsoft Windows - IOS - Android
- Hardware Skills** PC Hardware Assembly - Electromechanical Systems' Repair and Upgrade

RESEARCH EXPERIENCE

Research Assistant	Lessard's Research Group, Northeastern University, Boston, MA Instructor: Dr. Laurent Lessard
Research Assistant	Mechatronics Lab, University of Isfahan, Iran Instructor: Dr. Maryam Malekzadeh

TEACHING EXPERIENCE

Teaching Assistant	Industrial Drawing - Statics Instructor: Dr. Reza Vaghefi
Private Tutor	Physics - Mathematics - Algebra - Geometry - English Language

AWARDS AND HONORS

University of Isfahan	<ul style="list-style-type: none">▪ Faculty of Engineering scholarship as an Exceptional Talent Student for all semesters▪ Ranked 1st in the class of Mechanical Engineering▪ Exempted from the National Ph.D. Entrance Exam (Exceptional Talents Ph.D. Admission Offer: This type of admission is offered to the top 3 M.Sc. students with the highest GPAs)
Fasa University	<ul style="list-style-type: none">▪ Faculty of Engineering scholarship as an Exceptional Talent Student for all semesters▪ Ranked 1st in the class of Mechanical Engineering▪ Exempted from the National M.Sc. Entrance Exam (Exceptional Talents M.Sc. Admission Offer: This type of admission is offered to the top 3 B.Sc. students with the highest GPAs)
Sadi High School	<ul style="list-style-type: none">▪ High School scholarship as an Exceptional Talent Student for all years▪ Ranked 1st in the class of Mathematics and Physics

PROFESSIONAL EXPERIENCE AND SERVICE

Journal Peer Reviewer:

- IEEE Transactions on Systems, Man, and Cybernetics: Systems (**Q1 - Impact Factor: 8.7**) (1)
- IEEE/ASME Transactions on Mechatronics (**Q1 - Impact Factor: 6.4**) (4)
- ISA Transactions (**Q1 - Impact Factor: 7.3**) (5)
- Automatica (**Q1 - Impact Factor: 6.4**) (1)

ADDITIONAL ACTIVITIES AND HOBBIES

- Watching Documentaries, Series, and Movies
- Playing Billiard, Snooker, and Chess

FURTHER INFORMATION AND REFERENCES ARE AVAILABLE UPON REQUEST.