

Education

Jan. 2011

PhD in Mechanical Engineering, University of Waterloo, Canada

Sep. 2006

MASc in Mechanical Engineering, Ryerson University, Canada

Sep. 2001

Bachelor of Science in Mechanical Engineering, Amirkabir University of Technology, Iran

Academic Experience

Sep 2019- present

Associate Professor, Mechanical Engineering Department, Thomas J. Watson School of Engineering and Applied Science, State University of New York at Binghamton, USA

Aug 2013- Aug 2019

Assistant Professor, Mechanical Engineering Department, Thomas J. Watson School of Engineering and Applied Science, State University of New York at Binghamton, USA

June 2012- Mar 2013, Mar 2011 – May 2011

S. Towfighian

4. A. Ibrahim, W. Yang, S. Towfighian (2018) "Internal resonance of T-shaped structure for energy harvesting with magnetic nonlinearity". Proc. SPIE. 10595. In Active and Passive Smart Structures and Integrated Systems XII, March 15, 2018, 105952E, 8 pages, International Society for Optics and Photonics.
5. W. Yang, S. Towfighian (2018) Parametric resonance of a magnetically coupled harvester. Proc. SPIE. 10595. In Active and Passive Smart Structures and Integrated Systems XII, March 15, 2018, 105952V, 7al

20. S. Towfighian, A. Seleim, E. M. Abdel-

Low frequency Vibration Energy Harvesting using triboelectric material (completed)

Funding: start-up

Trainees: Lejie Liu (MS), Daniel Nelson (MS)

Teaching Experience

Dynamics of MEMS and Mi(g)745.56 Td(5)JTJETQq0.00000912 0 612 792 reWñBT0 g0 Gnding:

Campus Service

Oct 2014	MEMS session chair, 2014 Electronic Packaging Symposium at Binghamton University
Sep 2014-present	Mechanical engineering Department Committee member at SUNY Binghamton: Graduate Studies Committee, Hiring Search Committee, ME Department Seminar Series, Awards Committee, Watson Commencement committee.

Professional Service

Mar 2019-pres	Track Organizer for Energy Harvesting Symposium at ASME 2019 conference on smart materials, adaptive structures and intelligent systems
Mar 2019-pres	Secretary of the ASME energy harvesting technical committee
Feb 2019- pres	Symposium Organizer of the Dynamics of MEMS and NEMS at the 12 th International conference on Micro- and Nano Systems as part of ASME IDETC 2019
Aug 2018	Session Chair for VIB-3-3 Energy Harvesting and MNS-2-2 Microsystem Applications as part of ASME International Design Engineering technical Conference (IDETC) 2018
June 2018-pres	Guest Editor for Shock and Vibration
Mar 2018	

Memberships

American Society of Mechanical engineers
Institute of Electrical and Electronics Engineers

Awards

2018	<i>Symposium Organizer Award</i> at ASME IDETC 2018
2011	MITACS Elevate Postdoctoral Fellowship
2008-10	Canada NSERC Postgraduate Scholarship (doctoral level)
2008	Canada Ontario Graduate scholarship Award of Excellence