



CURRICULUM VITAE

Hossein Davari Ardakani
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Department of Mechanical Engineering
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Personal Data:

- Date of Birth: Feb. 10, 1982
- Place of Birth: Yazd, Iran
- Languages Spoken: Persian, English
- Citizenship: Iranian

Research Interests:

- Machine Diagnostics and Prognostics
- Condition Monitoring
- Signal Processing

Education:

- PhD in Mechanical Engineering, University of Cincinnati, Cincinnati, OH, USA. (2010-Present)
- M.Sc in Mechanical Engineering, University of Tabriz, Tabriz, Iran. (2006-2009)
- B.Sc in Solid-State Physics, University of Isfahan, Isfahan, Iran. (2000-2005)

Research Experiences:

- **M.Sc. Thesis**
Title: Fault Diagnosis of Vehicle Gearboxes using Vibration Analysis and Neural Networks
Supervisor: Dr. Morteza H. Sadeghi (Faculty of Mechanical Engineering, University of Tabriz, Tabriz, Iran).
Advisor: Dr. M. T. Vakil-Baghmisheh (Research Lab of Intelligent Systems, Faculty of Electrical and Computer Engineering, University of Tabriz, Tabriz, Iran).
- **2010 PHM Society Conference Data Challenge**
Title: RUL estimation for a high-speed CNC milling machine cutters using dynamometer, accelerometer, and acoustic emission data
Applied Method: Wavelet Transforms and Neural Networks
Result: Ranked 3rd in the student category of the competition

Publications:

- H. Davari Ardakani, M. H. Sadeghi and M. T. Vakil-Baghmisheh, “Fault Detection and Diagnosis of Vehicle Gearboxes Using Vibration Analysis and Neural Networks”, MFPT 2009 Conference, Dayton, Ohio, 28-30 April 2009.

Honors:

- Ranked as the top 3% students in the Iranian Universities' Entrance Exam for undergraduate degree, 2000.
- Ranked as the top 5% students in the Iranian Universities' Entrance Exam for M.Sc. degree in Mechanical Engineering, 2006.

Special skills:

- Theoretical background in Fuzzy Logic, Neural Networks and FEM (Finite Element Method).
- Experimental study of internal combustion engines and different methods of testing.
- Programming skill in Fortran.
- Technical Software: Matlab.

Teaching and Working Experiences:

- Industrial drawing (for undergraduate students of Industrial Engineering)
Ardakan branch of Payam-Nour University, Ardakan, Iran, Fall semester, 2008.
- Mechanical Engineer, Ardakan Float Glass Co., Ardakan, Iran, May 2009 to August 2009.