**Masoud Fathizadeh**

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**(219)989-2757**

**Education**

Dr. of Engineering, Cleveland State University (1987)

M.S.E.E., Electrical Engineering, University of Toledo (1982)

B.S.E.E., University of Science and Technology (1978)

**Areas of Expertise**: Controls, Robotics, Automation, Energy and Power Systems

**Academic Appointment at PNW**

Professor, Department of Engineering Technology, (2017-Present)

Associate Professor, Department of Engineering Technology, (2008-2016)

Assistant Professor, Department of Engineering Technology, (2003-2007)

Visiting Assistant Professor, Department Engineering Technology (2000-2002)

Adjunct Faculty, College of Engineering, Mathematics & Science (1992-1999)

**Industrial and Research Position**

President, Affordable Electric Inc., Oak Brook, IL, (1995-2003)

Engineering Consultant, Fermi National Laboratory, Batavia, IL, (1995-1996)

Electrical Engineer, Argonne National Laboratory, Argonne, IL, (1990-1995)

Electrical Engineer, Sargent and Lundy, Chicago, IL, (1989-1990)

Electrical Engineer, Lincoln Electric Company, Cleveland, OH, (1987-1989)

**Certification and Professional Registration**

Professional Engineer in the State of Illinois, (1992)

Electrical Contractor and Supervision Certificate for State of Illinois, (1996)

**Current Membership in Professional Organizations**

Member of ASEE

Member of PMMI

**Honors and Awards**

Recipient of College Technology Outstanding Graduate faculty Award, (2014-2015)

Recipient of the Best Paper Award in 2013

**Activities for Learning Modules Development**

* A key figure to establish BS degree in Mechatronic Engineering Technology at Purdue University Northwest. This is the first ABET accredited program in Mechatronics in the US. The Mechatronics program was started in 2008 with less than five students and grown to more than 110 students today.
* Developed and taught six modules to train participants for Department of Labor Grant.
* Developed eight Modules for Programmable Logic Controllers, Control Systems and Electric Machines to prepare students from two year colleges to smoothly take engineering courses at PNW. This effort was sponsored by an NSF grant.
* Contributed in development of a series of tests for power, PLC and safety for PMMI.

The impacts of such modules are; (1) Student-focused process that resulted enhance student learning (2) Increased student engagement, involvement, and competence.

**Service Activities -National, University, School, and Departmental Committees**

American Society of Engineering Educations (ASEE)

ASEE Program Chair of Instrumentation Division, (2016-Present)

**University Committee Membership**

Department of Engineering Technology Representative in PUC/PNW Senate, (2015-Present)

Member of Senate Curriculum Educational Planning Committee, (2015-Present)

Member of Senate Budget Committee, (2015-Present)

**Publications**

***Book Chapter***

**Publications**

***Book Chapter***

1. M. Fathizadeh, A. Ayyad, “APPLICATION OF REMOTE TELEMETRY FOR IMPROVING FORMULA SAE CAR PERFORMANCE,” to be published by Springer in 2018.
2. M. Fathizadeh, D. Seim (2014), “Practical Approach in Design of HVAC Systems Utilizing Geothermal Energy,” TRANSACTIONS ON ENGINEERING TECHNOLOGIES Chapter-4, Book ID: 323287\_1\_En Book ISBN: 978-94-017-9114-4. Date: 6-6-2014 pp-15-26, 978-94-017-9114-4, 323287\_1\_En (2)

***Journal Articles***

1. M. Fathizadeh, “Analysis and Feasibility of a Hybrid Power System for Small Rural Area,” Technology Interface International Journal (TIIJ) 2016.
2. M. Fathizadeh, A. Mansoori, “Feasibility and Sustainability of Geothermal in Midwestern States,” International Journal of Emerging Technology and Advanced Engineering ISSN 2250-2459, ISO 9001:2008 Certified Journal, Volume 5, Issue 12, December 2015.
3. M. Fathizadeh, D. Siems, “Geothermal system, a Practical Approach,” International Journal of Engineering and Innovative Technology (IJEIT), ISSN2277-3754, ISO 9001-2008, Volume 4, Issue 2, August 2014, pp 1-6.
4. M. Fathizadeh, (2014), J. Yen, “Utilizing Automation Standards in Engineering Education,” International Journal of Innovative Research in Technology & Science (IJIRTS) | VOLUME 2, NUMBER 6, ISSN: 2321-1156 December 2014, pp 47-53.
5. M. Fathizadeh, (2013), M. Zahraee, G. Neff, A. Hossain, J. Higley, N. Latif, Implementation of a New Mechatronics Engineering Technology Degree Leveraging Industry Support,” Technology Interface International Journal. Fall/Winter 2013, Volume 14, Number 1, pp 5-14*.*

**International Collaboration**

Duy Tan University Duy Tan Vietnam-Collaborating on course and laboratory development (2018-Present)

Collaborating with Consortium for Rapid Smart Grid Impact (CRSGI) UNESP, Brazil and, De Montfort University, UK, (2014-Present)

**Mitsubishi Training Center**

Dr. Fathizadeh is the initiator and PI for the establishment of a training center with collaboration of Mitsubishi Electric Automation at Purdue University Calumet campus. This center utilizes all state-of-the-art donated equipment to teach automation and instrumentation to students.

**Test Preparation for National Testing Organization**

A series of tests based on industry-developed standards and recognized by the U.S. Department of Labor and the [Manufacturing Institute](http://www.themanufacturinginstitute.org/Skills-Certification/Certifications/NAM-Endorsed-Certifications.aspx)’s Skills Certification System is developed by Dr. Fathizadeh for PMMI Mechatronics Education and [Industry](http://www.pmmi.org/Education/content.cfm?ItemNumber=1014) Partners to further advance this program.