

**Purdue University Northwest
School of Technology
Faculty Vita**

**Ali Alavizadeh
Assistant Professor, Engineering Technology**

Degree	Field	Institution	Date
B.S.	Applied Physics	Sharif University of Technology	June 1996
Ph.D.	Technology Management	Indiana State University	August 2007

Rank	Date	Accumulated Years of Service
Assistant Professor	August 2015	4 years

Related Teaching and Other Work Experience

Indiana University-Purdue University, Fort Wayne, IN **Fall 2011 – Summer 2015**
Assistant Professor of Industrial Engineering Technology
Graduate Program Director in Technology

The George Washington University **Fall 2009 – Summer 2011**
Instructor of Engineering Management and Systems Engineering

Morehead State University, Morehead, KY **Fall 2006 – Spring 2009**
Assistant Professor of Industrial Technology

Active Membership in Professional and Scientific Societies:

- American Society for Engineering Education (ASEE)
- The Society for Modeling and Simulation (SCS)

Honors, Awards and Publications:

Journals

- **Alavizadeh, A., & Lash, M. (2019).** Production Optimization of a Ramp-up Abrasive Disk Manufacturing System using Discrete- event Simulation. Manuscript is being accepted for publication in Technology Interface International Journal in fall of 2019.

- Teimourian, H., & **Alavizadeh, A.** (2017). Simulation modelling and analysis of a manual bending line to increase production rate and resource utilization. *Technology Interface International Journal*, 18(1), 43-49.
- **Alavizadeh, A.**, & Palevich, R. (2014). Improving the roller shaft subassembly process using discrete-event modelling and simulation: A case study. *International Journal of Engineering Research and Innovation*, 6(2), 14-20.
- **Alavizadeh, A.** & Jetley, S. (2010). Usage of Axiomatic Design Methodology in the U.S. Industries. *International Journal of Modern Engineering*, 10(2), 76-83.

Selected Book Chapters

- Djavanshir, R., **Alavizadeh, A.**, & Tarokh, M. J. (2012). From System-of-Systems to Meta-Systems: Ambiguities and Challenges. In System of Systems (Ed.: Adrian Gheorghe). InTech Publisher.
- **Alavizadeh, A.**, Djavanshir, R., Tarokh, M. J., & Mohammed, J. (2012). *Agile Value Creation and Co-evolution in Global Supply Chains*. In Customer-Oriented Global Supply Chains: Concepts for Effective Management (Editors: Eyob, E., & Tetteh, E.). IGI Global.

Selected Conference Papers

- **Alavizadeh, A.**, & Mikhail, M. (2019). Design and Development of Portable Pneumatic Trainers to Teach Basic PLC Wiring and Programming. *Proceedings of the 2019 American Society for Engineering Education Annual Conference & Exposition*, June 16-19, 2019, Tampa, Florida.
- Mikhail, M., & **Alavizadeh, A.** (2019). Virtual Robot Labs for Programming Industrial Robot Course. *Proceedings of the 2019 American Society for Engineering Education Annual Conference & Exposition*, June 16-19, 2019, Tampa, Florida.
- Mikhail, M., & **Alavizadeh, A.** (2019). Final Phase of Design, Test, and Evaluation of a Portable Programmable Logic Controller Trainer. *Proceedings of the 2019 American Society for Engineering Education Annual Conference & Exposition*, June 16-19, 2019, Tampa, Florida.
- **Alavizadeh, A.**, & Mikhail, M. (2018). Developing PLC-based Pneumatic Lab Activities for an Undergraduate Course on Fluid Power. *Proceedings of the 2018 American Society for Engineering Education Annual Conference & Exposition*, June 24-27, 2018, Salt Lake City, Utah.
- **Alavizadeh, A.**, & Mikhail, M. (2017). Integrating Measurement Instruments in Pneumatic Lab Activities. *Proceedings of the 2017 American Society for Engineering Education Annual Conference & Exposition*, June 25-28, 2017, Columbus, Ohio.
- Mikhail, M., & **Alavizadeh, A.** (2017). Enhancing a Programmable Logic Controller Course. *Proceedings of the 2017 American Society for Engineering Education Annual Conference & Exposition*, June 25-28, 2017, Columbus, Ohio.

- Nakayama, S., & **Alavizadeh, A.** (2017). Inclusion of Safety Discipline into Pneumatic and Hydraulics Lab Activities. *Proceedings of the 2017 American Society for Engineering Education Annual Conference & Exposition*, June 25-28, 2017, Columbus, Ohio.
- Verma, M. R., & **Alavizadeh, A.** (2017). Design and Development of Pneumatic Lab Activities for a Course on Fluid Power. *Proceedings of the 2017 American Society for Engineering Education Annual Conference & Exposition*, June 25-28, 2017, Columbus, Ohio.
- **Alavizadeh, A.**, Ortega, M.J., & Mikhail, M. (2016), Teaching Modeling and Simulation in Industrial Engineering Technology Programs: A National Survey Paper. *Proceedings of the 2016 American Society for Engineering Education Annual Conference & Exposition*, June 26-29, 2016, New Orleans, Louisiana.

Awards

- College of Technology's Outstanding Teaching Award (2018)

Institutional and Professional Service in the Past Five Years:

- Serving on Graduate Education Council (fall 2015 – present)
- Serving on PNW's senate, as well as Faculty Affairs Committee (Fall 2017 – present)
- Judged Indiana's regional Science Olympiad Competition held at PNW (2017)
- Judged in Indiana's regional Science Olympiad Competition held at IPFW(2012 – 2013)
- Served on the College Assembly (Indiana University-Purdue University Fort Wayne, 2012 – Spring 2015)
- Graduate program director in Technology (MCET Department, Indiana University-Purdue University Fort Wayne, 2011 – Summer 2015)

Professional Development and Activities in the Past Five Years:

Grants/Funded Projects

- **Alavizadeh, A.**, & Mikhail, M. (2016). PNW Proposal Development Grant (\$2,500)
- Mikhail, M., & **Alavizadeh, A.**, & Mikhail, M. (2016). PNW Proposal Development Grant (\$2,500).
- Alavizadeh, A. (2016). Professional Development Grant. College of Technology (\$2,825).
- Kernel Coladas Gourmet Popcorn shop, Columbia City, IN, Oct. – Dec. 2013 (\$700)
 - Optimized the production of three different types of popcorn using linear programming method.
- Battle Creek Equipment, Co., Fremont, IN, Jan. –May 2013(\$400)
 - Improved the production throughput and cycle time
 - Plant layout reconfiguration