

**Zach Harrison, BSIE, CSSGB, CEAS**  
**Managing Engineer**  
**JF Associates, Inc.**  
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## **Professional Profile**

Zach Harrison is a Managing Engineer at JF Associates, Inc. based in the Washington, DC area. He has his Bachelor of Science Degree in Industrial and Systems Engineering from Virginia Polytechnic Institute and State University. He is a Certified Six-Sigma Green Belt, Certified Ergonomic Assessment Specialist, and OSHA-30 certified.

His responsibilities include conducting data collection, data analysis, data modeling, and data migration; ensuring data security; developing reports; performing quality control; reviewing literature; and providing support with engineering drawings. Additionally, as a Managing Engineer he oversees the scheduling and training of project team members. His areas of specialty include time and motion study, ergonomics assessment, work measurement and analysis, manufacturing systems design and analysis, simulation modeling, biomechanical modeling, safety, and OSHA regulation. He is detail-oriented and provides technical writing and quality control support for the development of reports. He has aided in organizing several prestigious Industrial Engineering and Ergonomics conferences. He has previously worked as a Safety Consultant from 2011 to 2014 with Chemconscious based in Downintown, Pennsylvania. He has authored conference proceedings papers and has presented at International conferences.

## **Credentials and Professional Honors**

BS, Industrial and Systems Engineering, Virginia Polytechnic Institute and State University, 2011.  
Certified Six-Sigma Green Belt  
Certified Ergonomics Assessment Specialist  
OSHA-30 Certified

## **Selected Relevant Experience**

Consulting experience includes the following industrial sectors:

- Aerospace
- Automotive
- Call Centers
- Chemical Processing
- Distribution and Warehousing
- Department Stores
- Food Processing
- Foundry
- Healthcare
- Hospitality
- Landscaping
- Manufacturing
- Pharmaceutical
- Professional Staffing Services
- Restaurants
- Retail Stores
- Shipping
- Security
- Small and large assembly
- Telecommunications

## Conference Proceedings

Harrison, Z.J. and Subramanian. (2016) A Use of Apps to Improve Efficiency of Ergonomic Evaluations: A Case Study on Office Workstation Assessments. Proceedings of the 5th Annual World Conference of the Society for Industrial and Systems Engineering, Subramanian A, Fernandez JE, and Santos DL, (eds.), 290-296, 2016.

Subramanian, A., Ware, B.F., Fernandez, J.E., Harrison, Z.J., and Wright, C.D. (2014). Lean Tools to Improve Staff Efficiency in the Healthcare Industry-A Case Study. Proceedings of the 3<sup>rd</sup> Annual World Conference of the Society for Industrial and Systems Engineering. Subramanian A, Noriega-Morales SA, Fernandez JE, Ware BF and Santos DL, (eds.), pp. 485-489, 2014.

Ware, B.F., Subramanian, A., Harrison, Z.J., and Fernandez, J.E. (2013). Injury Trends Among Maid and Housekeeping Personnel in the Leisure and Hospitality Industry. Proceedings of the 2<sup>nd</sup> Annual World Conference of the Society for Industrial and Systems Engineering. Fernandez JE, Noriega-Morales SA, Subramanian A, Santos DL, and Ware BF (eds.), pp. 496-502, 2013.