

## SHAHEEN AHMED

### CONTACT INFORMATION

#### Professor

Automotive and Manufacturing -  
Engineering Technology  
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<http://faculty.mnsu.edu/shaheenahmed>  
[www.theopeneducator.com](http://www.theopeneducator.com)  
<https://www.youtube.com/theopeneducator>  
<https://www.strava.com/athletes/shaheenahmed>  
[www.linkedin.com/in/shaheenahmedphd](http://www.linkedin.com/in/shaheenahmedphd)  
[www.researchgate.net/profile/shaheen\\_ahmed2](http://www.researchgate.net/profile/shaheen_ahmed2)  
<https://orcid.org/my-orcid?orcid=0000-0001-5158-3128>  
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<http://scholar.google.com/citations?user=qnlBqQ8AAAAJ&hl=en>

### EDUCATION

<b>PhD</b> in Industrial and Systems Engineering Mississippi State University (MSU) USA	2013
<b>MS</b> in Industrial and Systems Engineering Mississippi State University (MSU) USA	2010
<b>MS</b> in Automotive Industrial Design Engineering Chalmers University of Technology (CTH) Sweden	2008
<b>BS</b> in Mechanical Engineering Bangladesh University of Engineering and Technology (BUET)	2004

### LICENSE/ CERTIFICATION

<b>PE</b> , Professional Engineer in Industrial and Systems Engineering License Number: 58925 Minnesota Board of Architecture, Engineering, Land Surveying, Landscape Architecture, Geoscience and Interior Design, AELSLAGID ( <a href="https://mn.gov/aelslagid/roster.html">https://mn.gov/aelslagid/roster.html</a> )	2021-Present
<b>CQE</b> , Certified Quality Engineer Certification Number: 104493 American Society for Quality, ASQ ( <a href="https://asq.org/cert/registry">https://asq.org/cert/registry</a> )	2020-Present
<b>CPE</b> , Certified Professional Ergonomist Certification Number: 1932 Board of Certification in Professional Ergonomics, BCPE ( <a href="http://www.bcpe.org/find-a-certificand/certificant-directory">www.bcpe.org/find-a-certificand/certificant-directory</a> )	2017-Present

### HONOR

Distinguished Teaching Scholar Fellow, Minnesota State University, Mankato	2020
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### CREATOR OF THE OPEN EDUCATOR

2017-Present

The Open Educator is an open-source learning and teaching platform available for learners and educators all over the world for free of cost. Video demonstrations, text explanations, and practice questions are available through the following websites.

[www.TheOpenEducator.com](http://www.TheOpenEducator.com)

[www.YouTube.com/TheOpenEducator](http://www.YouTube.com/TheOpenEducator)

YouTube Channel Statistics: <https://socialblade.com/youtube/c/theopeneducator>

**EMPLOYMENT/WORK EXPERIENCE**

<b>Minnesota State University, Mankato, USA</b>	2015-Present
<i>Professor</i>	2022-Present
<i>Trainer for the University Assessment Team</i>	2021-2022
<i>University Assessment Coordinator</i>	2019-2021
<i>Associate Professor</i>	2019-2021
<i>Assistant Professor</i>	2015-2019
<b>Board of Certification in Professional Ergonomics</b>	2020-Present
<i>Treasurer</i>	2021-Present
<i>Board of Director</i>	2020-Present
<b>Condux International, Mankato, Minnesota</b>	Spring 2018
<i>Consultant</i>	
Statistical Quality and Design of Experiments	
<b>The University of West Alabama, USA</b>	2013-2015
<i>Assistant Professor</i>	2013-2015
<b>Mississippi State University, USA</b>	2007-2013
<i>Research Assistant</i>	2007-2013
<i>Instructor</i>	2012
<b>TEACHING, TRAINING &amp; DESIGN OF COURSES &amp; PROGRAMS</b>	1998-Present
<b>Training Provided in Assessment, Evaluation, Accreditation, &amp; Certification</b>	2020-2022
For Instructor, faculty, staff, and administrator at Minnesota State University, Mankato (MSU). The trainings were provided through The Center for Excellence in Teaching and Learning, CETL, MSU	
For more information, please visit <a href="https://mankato.mnsu.edu/faculty-and-staff/center-for-excellence-in-teaching-and-learning/">https://mankato.mnsu.edu/faculty-and-staff/center-for-excellence-in-teaching-and-learning/</a> & <a href="http://www.theopeneducator.com/assessment">http://www.theopeneducator.com/assessment</a>	
1. Teaching and Learning Certificate, CETL, MSU	2021
2. Assessment of Student Learning Certificate, CETL, MSU	2019-2021
3. Program-Level Assessment Certificate, CETL, MSU	2019-2021
<b>Design of Courses added to the University of West Alabama (UWA) 2015-2016 Catalogue</b>	2014-2015
4. TY 300 – Fundamentals of Mechanical Engineering Technology. (3 credit)	2015
5. TY 453 – Statistical Quality Control (3 credit)	2015
6. TY 400 – Introduction to Human Factors and Ergonomics (3 credit)	2014
7. TY 101 – Introduction to Engineering Technology (3 credit)	2014
<b>Courses Taught</b>	1998-Present
8. MET 654 – Design of Experiments, MSU	2016-Present
9. MET 600 – Manufacturing Research Methods, MSU	2023-Present
10. MET 423/523 – Ergonomics & Work Measurement, MSU	2016-Present

11. MET 426 – Logistics and Transportation, MSU	2021-Present
12. MET 425 – Project and Value Management, MSU	2021-Present
13. MET 386 – Metrology for Engineering Technologist, MSU	2021-Present
14. AET 334 – Fluid Power, MSU	2015-Present
15. MET 323 – Statics, MSU	2023-Present
16. MET 324 – Strength of Materials and Dynamics, MSU	2015-2019
17. MET 427/527 – Quality Management Systems, MSU	2015-2019
18. MG 453 – Quality Management Systems, UWA	2013-2015
19. BQ 371 – Business Analytics, UWA	2013-2015
20. MG 322 – Manufacturing Process Management, UWA	2013-2015
21. TY 210 – TPM and Mechanical Systems, UWA	2013-2015
22. MG 455 – Safety Risk Management, UWA	2014-2015
23. TY 230 – Blueprint Reading and Drafting, UWA	2015
24. MG 351 – Managing Occupational Safety and Health, UWA	2015
25. BQ 271 – Business Statistics, UWA	2014
26. TY 240 – Fluid Power, UWA	2014
27. AU 201 – Fundamentals of Automotive Technology, UWA	2013
28. IE 3913 – Engineering Economy I, Mississippi State University	2012
29. Physics, Inorganic Chemistry, and Mathematics, Engineering Admission Coaching in Bangladesh	1998-2005

**PUBLICATIONS** 2008-Present

**Creator of The Open Educator** 2017-Present

The Open Educator is an open-source learning and teaching platform available for learners and educators all over the world for free of cost. Video demonstrations, text explanations, and practice questions are available through the following websites.

[www.TheOpenEducator.com](http://www.TheOpenEducator.com)

[www.YouTube.com/TheOpenEducator](http://www.YouTube.com/TheOpenEducator)

YouTube Channel Statistics: <https://socialblade.com/youtube/c/theopeneducator>

**Open-Source Online Textbook** 2020

1. **Ahmed, S.,** (2020). *Design of Experiments*. The Open Educator.  
<https://www.theopeneducator.com/doi>

**Featured Article on my Teaching philosophy and method** 2016

2. **Ahmed's** philosophy and theory of Teaching. Case Study: The human factors of teaching, by David Brandt, *Institute of Industrial and Systems Engineers Society official magazine*, 48, (8).

<http://faculty.mnsu.edu/shaheenahmed/theory-of-teaching/>

<http://faculty.mnsu.edu/shaheenahmed/teaching-philosophy/>

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|--|--------------|
| <b>Refereed Journal Articles</b>   | 2013-Present |
| 3. <b>Ahmed, S.</b> , Babski-Reeves, K., DuBien, J., Webb, H., & Strawderman, L. (2016). Fatigue Differences between Asian and Western Populations in Prolonged Mentally Demanding Work-Tasks. <i>International Journal of Industrial Ergonomics</i> , 54, 103-112.  | 2016         |
| 4. Huang, Y., Strawderman, L., Babski-Reeves, K., <b>Ahmed, S.</b> , & Salehi, A. (2013). Training Effectiveness and Trainee Performance in a Voluntary Training Program: Are Trainees Really Motivated? <i>Nonprofit and Voluntary Sector Quarterly</i> .   | 2013         |
| <b>Refereed Conference Proceedings</b>   | 2008-Present |
| 5. <b>Ahmed, S.</b> , (2017). Theory of Sustained Optimal Challenge in Teaching and Learning. <i>Proceedings of the 2017 International Annual meeting of Human Factors and Ergonomics Society</i> , Austin, TX, USA, October 9-13.   | 2017         |
| 6. <b>Ahmed, S.</b> , Babski-Reeves, K., and DuBien, J., and Webb, H. (2014). A Proposed Relationship between Time and Load to Quantify Fatigue. <i>Proceedings of the 2014 International Annual meeting of Human Factors and Ergonomics Society</i> , Chicago, IL, USA, October 27-31.                              | 2014         |
| 7. <b>Ahmed, S.</b> and Babski-Reeves, K. (2012). Assessment of Upper Extremity Postures in Novice and Expert during Simulated Carpentry Tasks. <i>Proceedings of the Human Factors and Ergonomics Society, 56<sup>th</sup> Annual Meeting</i> , Boston, MA, USA, October 22-26.                                     | 2012         |
| 8. <b>Ahmed, S.</b> and Babski-Reeves, K. (2011). Making Life Meaningful: Designing Workstations for Physically and Cognitively Impaired Adults. <i>Proceedings of the Human Factors and Ergonomics Society, 55<sup>th</sup> Annual Meeting</i> . Las Vegas, NV, USA, September 19-23.                               | 2011         |
| 9. <b>Ahmed, S.</b> and Babski-Reeves, K. (2009). Analysis of Subjective Body Discomfort Ratings during Simulated Prolonged Driving Tasks: What Measures are most Effective? <i>Proceedings of the Human Factors and Ergonomics Society, 53<sup>rd</sup> Annual Meeting</i> . San Antonio, TX, USA, Oct. 19-23.      | 2009         |
| 10. Salehi, A., Huang, Y., Strawderman, L. Babski-Reeves, K. and <b>Ahmed, S.</b> (2009). Effectiveness of Three Training Delivery Methods in a Voluntary Program. <i>Proceedings of the Human Factors and Ergonomics Society, 53<sup>rd</sup> Annual Meeting</i> . San Antonio, TX, USA, October 19-23.             | 2009         |
| 11. <b>Ahmed, S.</b> , Strawderman, L. and Babski-Reeves, K. (2008). Evaluation of a Conceptual Warning System for Mobile Phone Use While Driving to Increase Public Awareness. <i>Proceedings of the Human Factors and Ergonomics Society, 52<sup>nd</sup> Annual Meeting</i> , New York, NY, USA, September 22-26. | 2008         |
| <b>Refereed Conference Posters / Abstracts</b>   | 2009-Present |
| 12. Guerrero, A., Miller, C., Gruber, J. & <b>Ahmed, S.</b> (2021). Ergonomics of a Giant Door Manufacturing Process Evaluated. <i>24<sup>th</sup> Annual Applied Ergonomics Conference</i> . Virtual, March 19-25.  | 2021         |
| 13. Meyer, M., Burnham, D., Noeldner, B. & <b>Ahmed, S.</b> (2021). Warehouse Storage Facility Ergonomics. <i>24<sup>th</sup> Annual Applied Ergonomics Conference</i> in virtual, March 19-25.  | 2021         |
| 14. Buckley, M., Holmes, I., Larson, A. & <b>Ahmed, S.</b> (2020). Ergonomics of Lifting a 500-Pound Object Manually and Safely. <i>23<sup>rd</sup> Annual Applied Ergonomics Conference</i> in virtual, March 16-19.  | 2020         |

15. Tasler, C., Ortiz, F., Rickleff, L., & **Ahmed, S.** (2020). Ergonomics of Hydraulic Insertion Press Job Evaluated and Redesigne. *23<sup>rd</sup> Annual Applied Ergonomics Conference* in virtual, March 16-19. 2020
16. Welscher, D., Stutsman, L., Buchman, S. & **Ahmed, S.** (2019). Tire Shop Ergonomics. *22th Annual Applied Ergonomics Conference* in New Orleans, Louisiana, March 25-28. 2019
17. Sanchez, G., G., Nielsen, C., Bartho, R., White, S., & **Ahmed, S.** (2019). Evaluation and Redesign of the Glue Spraying Process for Boat Manufacturing. *22th Annual Applied Ergonomics Conference* in New Orleans, Louisiana, March 25-28. 2019
18. Hee Jin, S. & **Ahmed, S.** (2018). Anthropometric Evaluation of the Formula SAE Car: A pilot study. *21th Annual Applied Ergonomics Conference* in Atlanta, Georgia, March 26-29. 2018
19. Antolak, J. Paulson, P, & **Ahmed, S.** (2018). Ski/Snowboard Tech Shop Ergonomics. *21th Annual Applied Ergonomics Conference* in Atlanta, Georgia, March 26-29. 2018
20. Ryan, M., Caffin, B., Goettl, C., & **Ahmed, S.** (2018). Ergonomics vs Traditional Squat Bar: A pilot study. *21th Annual Applied Ergonomics Conference* in Atlanta, Georgia, March 26-29. 2018
21. **Ahmed, S.** (2014). The Ergonomic Teaching and Learning Application of Human Factors & Ergonomics in Effective Class Room Teaching. *17th Annual Applied Ergonomics Conference* in Orlando, Florida, March 24-27. 2014
22. **Ahmed, S.** & Babski-Reeves, K. (2014). A Pilot Study on Human Fatigue: Induced by Prolonged Mentally Demanding Work-Tasks. *17th Annual Applied Ergonomics Conference* in Orlando, Florida, March 24-27. 2014
23. Cobb, D., Gokaraju, B. and **Ahmed, S.** (2014). Using GIS for Recruiting in Higher Education. *2014 Annual Conference of The Association of Technology, Management, and Applied Engineering.*, St. Louis, Missouri, November 19-22. 2014
24. **Ahmed, S.**, Nash, K., Babski-Reeves, K. and Strawderman, L. (2011). Content Design and Presentation for University Websites. *MSU Human Factors Working Group*, MS, USA, April 13. 2011
25. **Ahmed, S.** and Babski-Reeves, K. (2009). Effects of automotive seating foam and perceived buttock discomfort ratings. *Proceedings of the Industrial Engineering Research Conference*. Miami, FL, May 30-June 3. 2009
26. **Ahmed, S.** Babski-Reeves, K. and Mendoza, P. A. (2009). Communication User Interfaces for Long Haul truck Drivers: Design Implications. *Proceedings of the Industrial Engineering Research Conference*. Miami, FL, USA, May 30-June 3. 2009
27. **Ahmed, S.**, Strawderman, L., Babski-Reeves, K., Haung, Y. and Salehi, A. (2009). Evaluating Training Effectiveness of the National Highway Watch<sup>®</sup> Program. *Transportation Workshop at Mississippi State University, Mississippi State*, MS, USA, February 6, 2009. 2009
28. Patnaik, S., **Ahmed, S.**, Littlejohn, R., Blackledge, C., Carruth, D., Babski-Reeves, K., Tarapore, A., Close, D. and Nash, K. (2009). Comparison of Postural Analysis Techniques: Application of Ergonomic Tools with a Law Enforcement Perspective. *Proceedings of the Industrial Engineering Research Conference*. Miami, FL, USA, May 30-June 3. 2009