

# SALEM NAEERI

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## EDUCATION

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- Ph.D., Industrial & Systems Engineering** **2020**  
University of Oklahoma, USA
- Thesis: Multimodal Analysis of Pilots' Fatigue During a Multi-Phase Flight Mission
- M.S., Engineering Management** **2006**  
Coventry University, United Kingdom
- Thesis: Implementation of Total Quality Management in Libyan manufacturing organizations
- B.Tech, Aircraft Maintenance Engineering** **1994**  
Civil Aviation and Meteorology Higher Institute, Libya

## PROFESSIONAL EXPERIENCE

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### ADJUNCT PROFESSOR

*Midwestern university, texas, usa* **2024-Current**

Teaching courses on innovation, production planning, and energy technology.

### POST-DOCTORAL RESEARCHER

*University of Oklahoma, USA* **2020-2022**

**Developed non-text-based smart learning in multi-person VR using eye movements, brain activities, and haptic interactions.**

- Implemented a thorough and systematic approach to classify various research methodologies that apply virtual reality-based resources in the field of education.

### GRADUATE RESEARCH ASSISTANT

*University of Oklahoma, USA* **2014-2020**

**Analyzed the effect of expertise on the task performance of pilots in a simulated long flight mission. This study included:**

- Investigating differences in eye movement characteristics between novice and experienced pilots during normal and adverse flight conditions (instrument failure scenarios).
- Examining changes in fatigue levels among pilots with varying expertise during a multi-segment flight task (multiple takeoffs and landings).
- Exploring the relationship between pilot fatigue (measured using traditional metrics

like reaction time, false starts, and number of lapses) and eye movement attributes.

**Predicting pilot fatigue using eye movement measures.**

- Conducted an experiment with expert and novice pilots, involving a simulated long-haul flight scenario with multiple takeoff and landing tasks.
- Developed stepwise regression model where pilots' eye movement attributes are used to predict their fatigue levels, with high overall model accuracy around 75%.

**ASSISTANT LECTURER**

*Technical College of Civil Aviation and Meteorology, Libya*

**2009-2013**

**Taught courses:**

- Applied Ergonomics
- Cognitive engineering
- Environmental Safety Management
- Statistics I
- Statistics II
- Engineering Statistics I
- Engineering Statistics II
- Algebra with Applications
- Calculus I
- Human Factors in Aircraft Maintenance
- Aviation Legislation and Regulations
- Aviation Management:
- Aircraft Materials and Hardware, I and II
- Statistical Analysis System Design
- Lean Manufacturing Operation and Design
- Systems Engineering

**QUALITY CONTROL SPECIALIST**

*New Orbit Telecom Company, Tripoli, Libya*

**2007-2009**

- Participated in the business renovation project with Sofrecom to enhance and implement the operations map framework in the New Orbit Company.
- Participated in developing the Quality Management Systems' plan "Develop FMEA and risk analyses plan for New Orbit Company.

**AWARDS & CERTIFICATES**

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- **Libyan-North American Scholarship Program** **2014-2020**  
Libyan Ministry of Higher Education and Scientific Research
- **The Libyan-British Scholarship Program** **2004-2006**  
Libyan Ministry of Higher Education and Scientific Research

- **Public Management and Leadership** **2012**  
London School of Economics, London, UK
- **Strategic Thinking: A Macro and Micro Perspective** **2012**  
London School of Economics, London, UK
- **Robberson Conference Presentation & Creative Exhibition Travel Grant** **2019**  
University of Oklahoma, USA

## **PUBLICATIONS**

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### **JOURNALS**

1. Naeeri, S. M., Kang, Z., & Palma Fraga, R. (2022). Investigation of Pilots' Visual Entropy and Eye Fixations for Simulated Flights Consisted of Multiple Take-Offs and Landings. *Journal of Aviation/Aerospace Education & Research*, 31(2). Retrieved from <https://commons.erau.edu/jaaer/vol31/iss2/2>
2. Naeeri, S., Kang, Z., Mandal, S., Kim, K. Multimodal Analysis of Eye Movements and Fatigue in a Simulated Glass Cockpit Environment. *Aerospace* 2021, 8, 283. <https://doi.org/10.3390/aerospace8100283>

### **CONFERENCES**

1. **Naeeri, S.**, Mandal, S. & Kang, Z (2019). Analyzing pilot fatigue for prolonged flight mission: Multimodal analysis approach using vigilance test and eye tracking. In *Proceedings of the Human Factors and Ergonomics Society 63rd Annual Meeting*, Oct. 28- Nov. 1, Seattle, WA.
2. **Naeeri, S.**, & Kang, Z. (2018). Exploring the relationship between pilot's performance and fatigue when interacting with cockpit interfaces. In *Proceedings of the 2018 Institute of Industrial and Systems Engineers (IISE) Annual Conference* (pp. 1-5), May 19-22, Orlando, FL.
3. **Naeeri, S.**, Mandal, S., & Kang, Z (2018). Exploring the effect of fatigue on pilot performance during single and multi-takeoffs and landings flight missions. In *Proceedings of the 7th Annual World Conference of the Society for Industrial and Systems Engineering*, Binghamton, NY, USA.
4. **Naeeri, S.**, & Kang, Z. (2017). Analysis of Pilot's Visual Scanning Characteristics under Normal and Extreme Flight Conditions. In *Proceedings of the 6th Annual World Conference of the Society for Industrial and Systems Engineering*, Herndon, VA.

## **SKILLS**

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### **Data Analytics**

- Statistical modelling and analysis, Regression (linear and non-linear), Clustering, Hypothesis testing, ANOVA, MANOVA, Optimization, Visualization

### **Programming**

- R, Python, SAS, SPSS, Minitab, AweSim, APIS IQ-Software (IQ: Integrated Quality),

Arena

### Specialty

- Eye Tracking (Tobii Studio, Tobii Pro Analysis), Mixed-Methods Study, Human Factors, Experimental Design and Analysis

## **PROFESSIONAL SERVICE**

### Membership

2022- current Member of Puget Sound Human Factors and Ergonomics Society (PSHFES).  
2022- current Member of Institute of Industrial and Systems Engineers (IISE).  
2019- current Member of Human Factors and Ergonomics Society (HFES).  
2022-current Member of Human Factors and Ergonomics Society Europe Chapter (HFES EC)

### Journal and Conference Paper Reviewer

2021-current. Reviewer for the International Journal of Aerospace Psychology.  
2022- current. Reviewer for the Engineering Management Journal.  
2022-current. Reviewer for the Researcher Academy.  
2022-current. Reviewer for Annual Meeting of the Human Factors and Ergonomics Society.  
2022-current. Reviewer for the HFES International Annual Meeting - Health Care.  
2022-current. Reviewer for the Science Publishing Group- Industrial Engineering (IE)

## **REFERENCES**

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- **Dr. Ziho Kang**  
Associate Professor, School of Industrial & Systems Engineering  
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Website: <https://www.ou.edu/coe/ise/people/ziho-kang>
- **Prof. Randa Shehab**  
Professor, School of Industrial & Systems Engineering  
Associate Dean for Academic Affairs, Gallogly College of Engineering  
Nettie Vincent Boggs Professor, School of Industrial Systems Engineering  
Email: [rlshehab@ou.edu](mailto:rlshehab@ou.edu)  
Website: [https://www.ou.edu/coe/ise/people/randa\\_1\\_shehab](https://www.ou.edu/coe/ise/people/randa_1_shehab)
- **Prof. Theodore B. Trafalis**  
Professor, School of Industrial & Systems Engineering  
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