

Tamer E. Yared Ph.D.

Career Objectives

Highly motivated and hardworking Industrial engineer with four-year experience in human factors and ergonomics research and six-year experience in safety engineering and safety management systems. My goal is to find a career in academia in the areas of Industrial engineering, Human factors, safety engineering, transportation safety, machine learning and smartphones interface, statistical analysis, or any other related field.

Education Background

- Ph.D. in Industrial Engineering (GPA: 3.96/4)** 2015-2019
Texas Tech University, Lubbock, Texas, U.S.A.
Dissertation: "Visual Search Characteristics When Using a Navigation System focusing on Driver Age, Display Size and Environmental Illumination"
Dissertation Adviser: Dr. Patrick Patterson
- M.Sc. in Industrial Engineering** 2010-2014
Jordan University of Science and Technology, Irbid, Jordan
Thesis: "Constructing a Model to Evaluate the Occupational Health and Safety in Surface Mines Using the Analytic Hierarchy Process"
Thesis Advisor: Dr. Samir Khaled Khrais
- B.Sc. in Industrial Engineering/Engineering Management** 2003-2008
Jordan University of Science and Technology, Irbid, Jordan
Graduate Project: "Buggy Car Feasibility Study and Plant Layout"

Academic Experience

- Columbia Southern University, Part-Time Faculty, Occupational Safety and Health, USA** May 2020-Dec 2020
- Instructor at the College of Safety and Emergency Services.
 - Instructor for Advanced Concepts in Environmental Safety Management (OSH 4308), and Industrial Ergonomics (BOS 3701).
- Texas Tech University, Teaching Assistant and Lab Instructor, USA** Aug 2015-Aug 2019
- Instructor for Lab Sessions and Lab Supervisor for Work Analysis & Design
 - Provided engaging training to students on several lab equipment such as the Hand Grip Dynamometer, the Pinch Grip Dynamometer, the Jackson Strength Evaluation System, different types of Anthropometers and several environmental measuring instruments.
 - Teaching Assistant for Engineering Design in Production Operations; Productivity and Performance Improvement in Organizations; Project Management; Work Analysis & Design; Industrial Ergonomics; Computing Principles for Industrial & Systems Engineers and Operations Research Modeling with Spreadsheets

Industrial Experience

- Occupational Health and Safety Inspector** Jan 2009 – Jan 2015
Employer: Ministry of labor, Irbid directorate, Jordan
- Performed occupational health and safety auditing and inspecting on different industries and workplaces.
 - Performed workplace environment assessments with monitoring instruments such as Sound Level Meter, Light Meter, Thermometer, Hygrometer, Dust Monitor, Vibration measurement system, Toxic Gas Monitoring System and Radiation Monitoring system.
 - Provided consultation for workers and employers regarding health and safety best practices and the Jordanian labor law.
 - Presented several lectures and induction training about safety management and workplace hazards for workers and employers in various industries.
 - Handled workers complains against employers.
 - Resolved several labor strikes through negotiations with workers and employers.
- Production Planning Engineer** July 2008 – Dec 2008
Employer: Quality Food Company - Nuqul group, Amman, Jordan
- Supervised the production lines workers to optimize the production out-put.
 - Conducted studies to increase the production line capacity.
 - Planned the production for the factory to meet the customers' orders on time.

Tamer E. Yared Ph.D.

Engineer Intern

Feb 2008 – April 2008

Employer: Jordan Aerospace Industry (JAI), Amman, Jordan

- Involved in a 3D Aircraft Modeling Project using Solid Works, which included 3D drawing and assembling of several aircraft parts.
- Worked as a Reverse Engineer a turboprop Airplane in the company workshop.
- Performed manufacturing and parts drawing tasks.

Professional Development

Safety 2019 Conference, New Orleans, LA

June 2019

- The Automation Paradox, Joel M. Haight, Ph.D., P.E., CSP.
- Electronic Cigarettes in the Indoor Environment, Cheryl L. Marcham, Ph.D., CSP, CIH.
- International Best Practices in OSH Knowledge Management, Richard Cooper, CMIOSH.

30-hr Construction Safety and Health, Lubbock, USA

Aug 2016

- Occupational Safety and Health Administration (OSHA).
- Guidelines to recognize, abate, avoid, and prevent safety and health hazards at worksites through record keeping, proper material and machine handling, industrial hygiene, fall protection, and ergonomics.

NEBOSH International General Certificate in Occupational Health and Safety, Amman, Jordan

Feb 2012

- The National Examination Board in Occupational Safety and Health (NEBOSH).
- Management of international health and Safety.
- Control of international workplace hazards.
- International health and safety practical application.

Journal Publications

Yared, Tamer & Patterson, Patrick “The Impact of Navigation System Display Size and Environmental Illumination on Young Driver Mental Workload”, *Transportation Research Part F: Traffic Psychology and Behaviour*, 74 (2020). <https://doi.org/10.1016/j.trf.2020.08.027>.

Yared, Tamer, Patterson, Patrick & Abdel All, E “Are Safety and Performance Affected by Navigation System Display Size, Environmental Illumination, and Gender When Driving in both Urban and Rural Areas?”, *Accident Analysis and Prevention*, 142 (2020). <https://doi.org/10.1016/j.aap.2020.105585>.

Stone, Richard, Mgadeh, Fatima, **Yared, Tamer & Baumann, Steffen** “Unveiling Wearables Dark Side: wearables’ impacts on mental health and factors controlling user intention for adoptability”, *Industrial Management & Data Systems*, under review since Sep 2020.

Farghal, Safaa, & **Yared, Tamer** “An Integrated Predictive and Preventive Maintenance Approach Based on Time Series Forecasting Method in Electricity Industry”, *International Journal of Quality & Reliability Management*, Under review since Sep 2020.

Stone, Richard & **Yared, Tamer** “Does Familiar and Consistent Game Music Increase Engagement, Improve Performance, and Reduce Stress?”, *International Journal of Game-Based Learning*, under review since July 2020.

Yared, Tamer “Visual Search Characteristics and Driving Safety of Young Drivers When Using a Navigation System”, Drafted 2021.

Other Research Publications and Presentations

Conference Abstract: Yared, Tamer. “Developing a Driving Simulator with a Navigation System to Measure Driver Distraction, Workload, Driving Safety and Performance”, *ICIEHFDE 2021: International Conference on Industrial Ergonomics and Human Factors Design Engineering*, Sydney, Australia, January 28-29, 2021.

Conference Abstract: Yared, Tamer & Khrais, Samir. “Constructing a Model Using the Analytic Hierarchy Process (AHP) to Evaluate Occupational Health and Safety Performance in Surface Mines”, *3rd International Conference on Industrial Engineering and Technology Management*, San Antonio, Texas, USA, October 26, 2019.

Conference Paper: Abdelall, E, Stone, Richard & Yared, Tamer. “Do Mechanical Engineers Create More Novel Design and Violate Less Design Constraints Than Industrial Engineers?”, *Engineering and Physical Sciences Research I*, London, United Kingdom, June 29 - 30, 2020.

Doctoral dissertation: “Visual Search Characteristics When Using a Navigation System focusing on Driver Age, Display Size and Environmental Illumination.”

Tamer E. Yared Ph.D.

Master's thesis: "Constructing a Model to Evaluate the Occupational Health and Safety in Surface Mines Using the Analytic Hierarchy Process."

Poster Presentation: Yared, Tamer & Patterson, Patrick. "Visual Search Characteristics When Using a Navigation System focusing on Driver Age, Display Size and Environmental Illumination", Graduate Student Research Poster Competition at Texas Tech University, Lubbock, Texas, USA, 2019.

Reviewer for Accident Analysis & Prevention – Elsevier.

Honors and Awards

- The Industrial Engineering Endowed Scholarship, Texas Tech University 2019
- The Industrial Engineering General Scholarship, Texas Tech University 2019
- CNA Scholarship, the American Society of Safety Engineers Foundation (\$5,000) 2018
- Texas Safety Foundation HSE Scholarship, the American Society of Safety Engineers Foundation (\$2,000) 2017
- The Industrial Engineering General Scholarship, Texas Tech University 2018
- The Industrial Engineering General Scholarship, Texas Tech University 2017
- Study Abroad Competitive Scholarship (SACS), Texas Tech University 2015
- The Industrial Engineering Endowed Scholarship, Jordan University of Science & Technology 2005

Qualifications/Skills

- R, MATLAB, Minitab, SPSS, Worked with ASL eye tracking system, Game developer with Unity 3D (game developing and editing software), Coding with C# and C++ (Basis level), Microsoft office suite, Microsoft Visio and Expert Choice, 2D and 3D drawing and modeling with AutoCAD and SolidWorks.
- Transportation Safety, New Technologies in Transportation, Human Factors, Cognitive Ergonomics, Statistical Analysis (ANOVA), Safety Management, Safety Engineering, Driving Simulation Development (Unity 3D) and Decision-making tools (AHP).
- Languages: English, Arabic

Professional involvement

- A member of American Society of Safety Professionals (ASSP). 2016 - Present
- A member of Texas Tech University Graduate Assembly. 2015 – 2018
- A member of Jordanian Engineers Association. 2008 - Present