

Ms. Gadir Hazime is a degreed Mechanical Engineer, Bioengineer and Industrial Engineer specializing in human factors. Ms. Hazime is a Senior Staff Consultant for Engineering Systems Inc. (ESi) and works closely with the human factors, biomechanics, consumer product, automotive, and safety industries. She has experience in visibility, conspicuity, injury analyses, human motion analyses, product testing, failure analysis, and accident reconstruction. Her professional experience also includes scene, vehicle, equipment, and building inspections, data acquisition, and testing.

Education

MSE, Industrial & Systems Engineering in Human Factors.
University of Michigan.

BSE, Mechanical Engineering. University of Michigan.

BSE, Bioengineering. University of Michigan.

Languages

- English, Arabic.

Positions Held

Engineering Systems Inc., Ann Arbor, Michigan

- Senior Staff Consultant, 2025 – Present
- Staff Consultant, 2022 – 2024
- Engineering Intern, 2021 – 2022

Michigan Sports Medicine, Dearborn Heights, Michigan

- Research and Medical Associate, 2018 – 2021

Continuing Education

- **Traffic Crash Reconstruction for Engineers** – Northwestern University Center for Public Safety, 2024
- **Bosch CDR Tool Technician** – Certification of Training, IPTM, University of North Florida, 2023

Contact Information

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ESi Ann Arbor

1174 Oak Valley Drive
Ann Arbor, MI 48108

Areas of Specialization

- Human Factors
- Visibility and Conspicuity
- Accident Investigation and Reconstruction
- Industrial and Occupational Injury Investigation
- Consumer Products
- Safety
- Biomechanical Analysis
- Data Acquisition

- **Mycometer Surface Fungi Sampling & Analysis** – Proficiency Certification Award, 2022
- **FARO Focus 3D Operator** – Certificate of Training, Aurora, IL, 2022
- **Sensation and Perception**
- **Human Factors and Ergonomics**
- **Production & Operation Engineering**
- **Vehicle Ergonomics**
- **Human- Computer Interaction**
- **Advanced Biomechanics**
- **Anatomy & Physiology**
- **Engineering Dynamics**

Professional Affiliations/Honors

Society of Automotive Engineers (SAE)

- Member

Pi Tau Sigma, Engineering Honor Society

- Member

Project Experience

Daytime and Nighttime Visibility Studies

- Evaluation of visibility and conspicuity under varying lighting conditions, including headlamp, ambient, and glare effects on perception.

Auditory Cue Evaluation

- Assessment of warning signals and auditory information in accident reconstruction and safety contexts.

Acceleration and Vibration Analyses

- Testing and data acquisition on accelerations and vibrations affecting human occupants in transportation and consumer product contexts.

Wheelchair Accident Investigations

- Biomechanical and human factors analyses of wheelchair-related incidents, including stability, user motion, and environmental interaction.

Slips, Trips, and Falls

- Analysis of pedestrian kinematics, gait variability, and environmental factors to assess fall mechanisms and potential biomechanical injury mechanisms.

Warnings and Safety Information

- Review and analysis of product labeling, warnings, and instructions for usability and compliance with human factors principles.

Surrogate Testing

- Design and execution of surrogate human testing protocols to replicate real-world movements and responses for accident reconstruction and product safety analysis.

Publications

“Elevator Passenger Accelerations During Emergency Stops, Normal Elevator Travel, and Everyday Activities,” A.C. Mathias, **G.A. Hazime**, H. Chan, J.M. Roberts, M.E. Kelley, Biomedical Sciences Instrumentation, 62nd Annual Rocky Mountain Bioengineering Symposium, St. George, UT. Biomedical Sciences Instrumentation Journal, Vol. 61, No. 1, April 2025.

“When a Flashlight Looks Like a Threat: A Multifaceted Human Factors Approach in the Accident Reconstruction of a Police Officer Shooting,” M. Meza-Arroyo, **G.A. Hazime**, and, K.B. Zakutansky, International Society for Occupational Ergonomics & Safety, XXXVIIth Annual Occupational Ergonomics and Safety Conference, Orlando, FL. July, 2025

Presentations

“Elevator Passenger Accelerations During Emergency Stops, Normal Elevator Travel, and Everyday Activities,” Presenter, **G.A. Hazime**, 62nd Annual Rocky Mountain Bioengineering Symposium, St. George, UT. April 10-12, 2025

“When a Flashlight Looks Like a Threat: A Multifaceted Human Factors Approach in the Accident Reconstruction of a Police Officer Shooting,” Presenter, **G.A. Hazime**, XXXVIIth Annual Occupational Ergonomics and Safety Conference, Orlando, FL. July 24-25, 2025