NADINE FAHED, Ph.D.
STAFF CONSULTANT

nfahed@engsys.com

Nadine Fahed is a Staff Consultant in the Civil Structural practice group at Engineering Systems Inc. (ESi) in the Atlanta, Georgia office. She has experience in sensor instrumentation, structural health monitoring of in-service structures, data acquisition and visualization, experimental testing design and execution, and system identification of in-situ structures. She has been involved in fieldwork on bridge structures, installing and working with different sensors, and data acquisition systems.

Prior to joining ESi, her research focused on developing a framework for input-parameter-state estimation of structural systems aimed at reducing the reliance on input parameters that are typically unknown a-priori. Her work integrated simplified structural dynamic models with linear and nonlinear stochastic filtering methods to enable the inference of critical system input and states under different response conditions.

Nadine Fahed holds a Ph.D. in Civil Engineering and an M.S. in Electrical and Computer Engineering from Georgia Institute of Technology, as well as a B.S. in Civil Engineering from the University of Balamand. She is fluent in English, Arabic, and French.

Areas of Specialization

Civil and Structural Engineering	Structural Analysis
Commercial and Residential Structures	Insurance
Construction Defect Investigations	Failure Analysis

Education

Ph.D., Civil Engineering, Georgia Tech

M.S., Electrical and Computer Engineering, Georgia Tech

B.S., Civil Engineering, University of Balamand

Positions Held

Engineering Systems Inc., Peachtree Corners, GA

Staff Consultant, 2025 – Present

May 2025

Georgia Institute of Technology, Atlanta, GA

      Research Assistant, 2018 – 2024
      Instructor for Engineering Mechanics Statics, 2021

Publications & Presentations

"Martlet wireless sensing system for full scale bridge weigh-in-motion", Proceedings Volume 12046, 1204605 (2022), Peter Lander, Nadine Fahed, Yang Wang.