

Keith B. Caballer-Diaz

ASSOC. AIA, AIT

Senior Staff Consultant



As Caballer holds a degree in architecture with over five years of experience in design, administration, and documentation of Architecture, Engineering, and Construction (AEC) projects. He specializes in pedestrian and floor safety, including slip resistance and coefficient of friction (COF) testing. He also performs scientific investigations and failure analysis of the designed and built environment for project-specific matters, including the review of code compliance, accessibility guidelines, and walkway safety standards. His expertise in premises safety and building code matters extends not only to residential and commercial buildings but also encompasses his experience with cruise ships and other large passenger vessels. Mr. Caballer's architectural background and experience with the National Floor Safety Institute have been key in his premises safety audits & forensic risk assessments regarding slip, trip, and fall cases.

Prior to joining ESi, Mr. Caballer performed hundreds of building damage assessments for the emergency disaster response efforts following Hurricane Maria and its impact on Puerto Rico's public infrastructure. These damage assessments included schools, hospitals, government buildings, and private non-profits like churches and other special education institutions. In addition, Mr. Caballer worked for GE Healthcare as a Project Manager and Lead Design intern, where he got first-hand exposure to hospital construction methods, materials, and building codes for spaces that house medical imaging equipment.

During Mr. Caballer's time working for the Federal Emergency Management Agency (FEMA) and ICF International Consulting, he applied various data collection techniques, such as thermal imaging, laser scanning, and drone photogrammetry, to aid in building and roof inspections.

Education

B. Arch., Polytechnic University of Puerto Rico, 2021

Languages

- English, Fluent
- Spanish, Native

Contact Information

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ESi Miami

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Areas of Specialization

- Walkway Audits & Safety Evaluations
- Building Code & Design Standards
- Construction Management and Administration Construction Documents and Contracts
- Building Information Modeling (BIM) Mapping & Surveying Technologies
- Design, Animation, and 3D Scene Preservation Infrastructure Inspections and Thermography
- Maritime Vessel Inspections & Safety Audits
- Footwear Inspections and Sole Traction Tests

Positions Held

Engineering Systems Inc., Miami, Florida

- Senior Staff Consultant, 2025 – present
- Staff Consultant, 2024 – 2025
- Sr. Technologist & Team Leader 2022- 2024
- Sr. Technologist 2020-2022

ICF International, San Juan, Puerto Rico

- Damage Inspector 2019 – 2020

GE Healthcare, San Juan, Puerto Rico

- Project Manager & Lead Designer Intern 2012 – 2014

Continuing Education

- **Walkway Auditor Certificate Holder (WACH)**, National Floor Safety Institute (2023)
- **Certified XL Tribometrist (CXLT)**, Excel Tribometers (2023)
- **Essential Skills Development for Site Planning I**, GE Healthcare, 2013
- **Essential Skills Development for Site Planning II**, GE Healthcare, 2013
- **Certified GruvLok Coupling Pipe Fitting Inspector**, Anvil International, 2022
- **Level 1 sUAS Thermography Certification**, Infrared Training Center, 2022
- **FARO Focus Certified Operator**, FARO, 2020
- **Certified Part 107 Drone Pilot**, Federal Aviation Administration, 2019
- **Disaster Management Training Courses IS-1001 through IS-1024**, FEMA, 2019
- **Fall Protection Training**, Turner Consulting and Training Services, 2022
- **Classification and Statutory Surveys for Maritime Vessels**, Lloyd's Register, 2025

Professional Affiliations/Honors

American Institute of Architects

- Associate AIA member

ASTM

- F13 Committee on Pedestrian Walkway Safety and Footwear
- F25 Committee on Ships and Marine Technology

National Floor Safety Institute

- B101 Main Committee Member

Project Experience

Design and Operational Experience

Cruise Ship Dry Dock Projects - MSC Cruises

- Participated in cruise ship dry dock operations in Palumbo Shipyards, Malta, for MSC Cruises
- Conducted COF testing of flooring surfaces scheduled for demolition, ensuring evidentiary integrity and proper documentation.
- Conducted construction evaluations and COF tests were performed under the direct oversight of classification society Bureau Veritas (BV), ensuring compliance with legal and maritime safety standards.
- Received dry dock safety training and participated in vessel safety checks, including watertight/weathertight door inspections, electrical system verification, and emergency communication tests.
- Observed and participated in BV-led emergency safety drills from the ship's bridge, gaining exposure to vessel-wide safety systems and procedures.
- Supported construction and remodeling coordination to ensure forensic testing was properly sequenced with shipyard activities.

Publications

"The Relationship between Code Requirements & Human Factors/Biomechanical aspects of Slip, Trip and Fall Incidents" - Authors/Presenters: Zdenek Hejzlar, **Keith Caballer** & Christopher Eckersley-2023 NFSI Slip, Trip, and Fall Prevention Symposium