

FORCON INTERNATIONAL

DAVID ULIANA, P.E., CFEI

SUMMARY

Mr. Uliana is an experienced Forensic Engineer who has thirty four years of engineering experience. He started his career as a Structural Engineer and Stress Analyst, where he performed many complex analyses of large structures in Marine, Civil and Mechanical applications. Many of the analyses involved blast loadings on structures, mechanical design and manufacturing. In the past fifteen years Mr. Uliana has conducted Forensic Analyses for Civil, Structural, and Mechanical Engineering field investigations including, but not limited to: structural failures of steel, wood, concrete, and masonry structures; code compliance for trip and fall incidents; construction defects; structural water intrusion; building code compliance; water well failures; geotechnical and foundation failures; HVAC failures; fire suppression system failures; vehicle fires; equipment fires and building fires.

EDUCATION

Bachelor of Science in Civil Engineering, University of Delaware, Newark, Delaware Cum Laude, 1983
Master of Science in Civil Engineering, Virginia Polytechnic Institute and State University, Blacksburg, Virginia, 1985
Adjunct Professor at Towson University, Towson, MD in the Mathematics Department, where he taught classes in Calculus and Numerical Methods to undergraduate students.
Adjunct Professor at the United States Naval Academy, where he taught Statics in the Mechanical Engineering Department.
Lecturer at the Johns Hopkins University on the topic of Forensic Engineering.

PROFESSIONAL REGISTRATIONS & CERTIFICATIONS

Registered Professional Engineer in the following States:

- Delaware No.: 17178
- District of Columbia No.: PE905940
- Maryland No.: 17646
- New York No.: 089329
- North Carolina No.: 047749
- Pennsylvania No.: PE080388
- Virginia No.: 0402048208
- West Virginia No.: 018830

Haag Certified Residential Roof Inspector, No.: 201710455
Certified Fire and Explosion Investigator, NAFI Certification No.: 14989-7829

PROFESSIONAL ASSOCIATIONS/MEMBERSHIPS

Tau Beta Engineering Honor Society
Chi Epsilon Engineering Honor Society
Six Sigma Blackbelt

CAREER HISTORY

FORCON International – Forensic Engineer

Conducting Forensic Analyses for Civil, Structural, and Mechanical Engineering field investigations including, but not limited to, structural failures of steel, wood, concrete, and masonry structures; code compliance for trip and fall incidents; water intrusion; water well failures; building code compliance; geotechnical and foundation failures; roof inspections; HVAC system failures; fire suppression systems.

Unified Investigations and Sciences, Inc., White Marsh, MD – District Manager and Senior Forensic Engineer
Opened and managed the Baltimore and Philadelphia offices for Unified Investigations and Sciences. Responsible

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for top line and bottom line financial performance of region including operations, personnel, sales and marketing, Conducted Forensic Analyses for Civil, Structural, and Mechanical Engineering field investigations including, but not limited to, structural failures of steel, wood, concrete, and masonry structures; water intrusion; building code compliance; water well failures; geotechnical and foundation failures; HVAC system failures; fire suppression systems.

- Lead Engineer on over 2000 field investigations during investigative career.

Rothfuss Engineering Company, Inc., Jessup, MD - Chief Engineer and Director of Marketing

Forensic analyses for Civil, Structural, and Mechanical Engineering field investigations including, but not limited to, structural failures of steel, wood, concrete, and masonry structures; trip and fall; water intrusion; building code compliance; water well failures; geotechnical and foundation failures; HVAC system failures; fire suppression systems.

- Lead Engineer on over 600 field investigations.
- As Chief Engineer responsible for hiring, training, report review, disciplinary actions and procurement of equipment.
- As Director of Marketing responsible for all client interaction, business development, proposal development and top-line sales. Increase sales by over 90% in four years.

Trident Engineering Associates, Inc., Annapolis, MD – Vice President and Forensic Engineer

As a Forensic Engineer responsible for over 400 forensic investigations of structural collapses, foundation failures, structural water intrusions, building code infractions, construction site flooding, storm water drainage system malfunctions, hurricane damage and lightning strike damage. Performed structural inspections and analyses on wood, steel, masonry, and concrete structures. Performed inspections and analyses for foundation integrity on residential and commercial buildings. Managed projects for Anne Arundel County Department of Public works for the design and construction of facilities and for the failures in public works facilities.

- As Vice President increased sales by 80% in three years, doubled billable hours per case and lead the company from several years of losses to profitability.

United States Naval Academy, Annapolis, MD - Adjunct Engineering Faculty

Responsible for administrative and teaching duties for multiple class sections in the Mechanical Engineering Department.

Cromwell Valley Engineering, Inc., Towson, MD – Engineering Consultant

Established and operated small independent engineering consulting company. Consulted with large manufacturing companies to implement quality control systems using Six Sigma techniques. Investigated and determined causes of numerous mechanical and structural failures.

The Black & Decker Corporation, Towson, MD - Engineering Program Manager

Managed teams of Engineers, Product Managers and Designers to develop DeWalt powertools and accessories from concept through distribution. Drove projects to completion on time and on budget. Responsible for cost, capital expenditure, schedule, quality, conformance to design specifications and delivery for product development projects.

The Black & Decker Corporation, Towson, MD – Senior Design Engineer

Controlled technical aspects of product development projects including prototyping, testing, design, documentation, tooling approval and product performance. Managed Designers and Drafters for performance, career development and technical competency.

AAI Corporation, Inc. - Cockeysville, MD – Engineer

Performed finite element analyses on military vehicles and components for static loads, dynamic loads and explosive shock loads. Performed ballistic analyses on depleted uranium projectiles. Held a DOD Secret Clearance.

General Dynamics, Inc. (Electric Boat Division) – Groton, CT – Engineer

Performed finite element analyses on submarine structures. Performed transient dynamic analyses on submarine structures for blast loading.