



Robert S. Welsh Jr., EI
Project Engineer

Education:

B.S.C.E.; Civil / Structures: University of South Florida

Professional Registration:

FE 1100014462/ FL [Engineer Intern Registration: State of Florida]

Professional Affiliations:

Florida Structural Engineering Association – Member
Florida Engineering Society – Member
Florida Association of Sinkhole Stabilization Specialists - Member
American Society of Civil Engineers – Student Member

Urban Search and Rescue Qualifications:

Bracken Engineering [Engineering Response Team Member]

Summary of Experience:

Mr. Welsh's training; experience and practice includes structural and general civil as well as forensic engineering.

Within the structural engineering arena, Mr. Welsh has performed design, analysis, and evaluation of concrete, masonry, wood, and steel structures. His design responsibilities have included reinforced concrete foundation design, wood and steel floor framing design, exterior balcony and circular roof designs.

Within the structural restoration arena, Mr. Welsh has been involved with the assessment and restoration of structures damaged by fire, impact, and subsurface damage.

Within the forensic arena, Mr. Welsh has participated in field data acquisition and information management in support of forensic investigations and construction monitoring.

Research:

In conjunction with Bracken Engineering, Inc., Mr. Welsh has participated in the development of discussion sections involving the failure mechanisms of different materials. These materials include concrete, masonry, wood, steel, and aluminum.

In conjunction with Bracken Engineering, Inc., Mr. Welsh assisted in the testing of an interior mini pile bracket that currently holds a patent. The testing of this bracket consisted of collecting data used to develop elevation and strain graphics of the tested materials.



Seminars Attended:

“ISO Elevation Certificate Training.” Hillsborough County Emergency Operations Center. July 13, 2010. Tampa, FL.

“ATC 20 and ATC 45 Training.” Applied Technology Council. June 17, 2010. Tampa, FL.