

# FORCON INTERNATIONAL

**DAVID L. HILDEBRAND, PE**

## **SUMMARY**

Mr. Hildebrand has over 49 years of experience in engineering management and design encompassing low to mid-rise commercial, medical, institutional and residential building structures. Specialty structures of interest include log homes, outdoor advertising structures, water park slides and play features in addition to both commercial and residential swimming pools. Through his experience and continuing education, he has gained a thorough knowledge and understanding of the use and performance characteristics for various building materials that include reinforced concrete, standard and high strength steels, masonry, aluminum, light and heavy timber, as well as fiberglass reinforced concrete and plastics.

Mr. Hildebrand spent six years of his career as a project manager in the construction industry. Those years of experience gave him added insight and understanding of construction practices, labor and material management, and constructability issues that contractors deal with during a construction project. His insight and understanding has proven to be a tremendous aid in the development of new and better designs in the complex world of building design and construction.

Mr. Hildebrand's experience with swimming pools and water park attractions includes having worked as the design engineer for a waterpark design/build contractor where he provided engineering design services on slide support structures as well as design/development assistance on new slides and play features. In addition, he provided design services for slide landing pools, lazy rivers, and wave pools. He also provided design engineering services to several pool contractors on both public and private pools and has provided forensic engineering services on a number of pool failures. As a result of his years of experience in this field, he has become very familiar with the International Swimming Pool and Spa Code.

In addition to the design and analysis of new structures, Mr. Hildebrand has an extensive background in investigating and evaluating existing and planned structures for conformation of structural integrity, determination of cause and extent of structural distress or failure. These investigations have been performed at the request of Owners, Design Professionals, Contractors, Insurance Providers, and Legal Professionals. His previously mentioned design and construction experience coupled with these investigations have given Mr. Hildebrand a unique ability to quickly assess weaknesses in structures and the most probable cause(s) of structural distress or failures.

## **EDUCATION**

Bachelor of Civil Engineering - Southern Technical Institute, 1976

## **REGISTRATIONS & CERTIFICATIONS**

Registered Professional Engineer in the following States:

- Florida # 39952
- Georgia # 16382
- Georgia # SE000095 (Engineering Specialty)

## **PROFESSIONAL ASSOCIATIONS**

- American Institute of Steel Construction
- National Structural Engineers Association
- Structural Engineers Association of Georgia
- International Concrete Repair Institute

## CAREER HISTORY

### **FORCON International – Structural Engineer**

Over the last thirty-five years with Forcon, Mr. Hildebrand has conducted forensic engineering investigations and providing expert witness testimony for cases involving property damage and construction design failure of low, mid, and high rise commercial, residential, institutional and light industrial buildings structures with particular emphasis on building material usage in a variety of structural applications and the applicability of various building codes and standards. He has also investigated issues associated with swimming pools.

## KEY REPRESENTATIVE PROJECTS

On the following projects, Mr. Hildebrand functioned as the project manager and/or the project engineer:

- **Ross's Landing Plaza and Tennessee Aquarium:** Chattanooga, TN – Recipient of the American Society of Civil Engineers "Award of Engineering Excellence".
- **Thomas Crossroad Medical Office Building:** Cowetta County, GA – 2 story steel framed medical facility.
- **Eckerd Drug Store:** multiple locations throughout Southeast USA – 1 story steel framed retail facility.
- **Jameson Inn:** multiple locations throughout Southeast USA – 2 and 3 story timber framed hotels.
- **Houston Medical Center Ambulatory Surgery Center:** Houston County, GA – 1 story steel framed medical/surgery facility.
- **K-mart:** Puerto Rico – Hurricane damage assessment of K-mart Stores.
- **Stonepark Condominiums:** Atlanta, GA – Structural condition assessment and remediation.
- **Chattanooga Paper Board:** Chattanooga, TN – Renovation and reconstruction of steel framed paper manufacturing facility.
- **Chattanooga News Free Press:** Chattanooga, TN – Multi-story steel and concrete press room.
- **Pelican Beach Condominiums:** Destin FL – 19 story concrete structure with two-way slab system.
- **Chattanooga Choo-Choo Hilton:** Chattanooga, TN – 10 story masonry and concrete.
- **Aircraft Hangers and Fueling Centers:** various locations across the country.
- **Low, mid, and high-rise outdoor advertising structures:** numerous locations throughout the U.S.A.
- **McDonough Road Baptist Church Family Life and Classroom Addition:** McDonough, GA – 1 story Family Life Center and a 2 story Classroom Building.
- **Structural forensic investigations, expert witness services:** for private Owners, Design and Construction Professionals, Attorneys, and Insurance Companies.