



## Anthony E. Bond P.E.

### Heavy Equipment Practice Leader, Principal Engineer

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Mr. Anthony (Tony) Bond is a Principal Engineer, St. Louis Branch Manager, and Heavy Equipment Practice Leader for Haag Engineering. He has nearly 30 years of active involvement in the aerial device, crane, and heavy equipment industries. He is a licensed Professional Engineer in 28 states and the District of Columbia. He specializes in determining the cause and extent of aerial device accidents, as well as determining the responsibilities of the involved parties (manufacturer, owner, dealer, user, operator) as defined by aerial device national consensus standards. He testifies in depositions and trials as an aerial device, crane, and heavy equipment expert. Mr. Bond gained valuable experience from his employment as a design engineer and engineering manager for over 14 years with an aerial device and crane manufacturing company. His structural designs and analyses include booms, pedestals, carriers, and outriggers, as well as hydraulic cylinders. Designs also include hydraulic, electrical, and control systems for aerial devices and cranes. Under his direction as an engineer manager, the research and development team fabricated and assembled prototype models for testing prior to releasing for production.

#### Primary Areas of Consulting

- **Mechanical and Structural Failures of Aerial Devices**  
Boom Lifts, Scissor Lifts, Trailer Mounted Lifts,  
Vehicle Mounted Lifts, Vertical Mast Lifts, Insulated  
and Non-Insulated Lifts
- **Mechanical and Structural Failures of Cranes**  
Boom Trucks, Crawler, Derricks, Gantry,  
Maritime, Mobile, Overhead, Pedestal,  
Rough Terrain, Self-Erecting Tower
- **Mechanical and Structural Failures of Construction Equipment**  
Concrete Boom Pumps, Rough Terrain Forklifts, Excavators  
Material Hoist (Construction Elevators)
- **Control Systems for Aerial Devices, Cranes, and Construction Equipment**  
Hydraulic, Electric / Hydraulic, Radio Remote, Fiber Optic  
Operator Aids (Load Moment Indicator, A2B)
- **Design Experience**  
14 years of design experience within the mobile, hydraulic equipment industry  
Product design and R&D testing of prototype models  
Designed structural components, hydraulic cylinders, hydraulic/electrical control systems
- **Code Interpretation and Standards Compliance**
- **Expert Witness**

**Anthony Bond is Haag's Aerial Device Expert. [Click here for more details.](#)**

#### Licensed Professional Engineer in the States of:

Alabama, Arizona, Arkansas, Colorado, District of Columbia, Florida, Georgia, Illinois, Indiana, Iowa,

Kansas, Kentucky, Louisiana, Michigan, Minnesota, Mississippi, Missouri, Nebraska, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Pennsylvania, South Carolina, Tennessee, Texas, and Wisconsin

### **Memberships**

- American Society of Mechanical Engineers (ASME)
  - o ASME SRB-1 Design, Installation, Maintenance Slewing Ring Bearing
- National Society of Professional Engineers (NSPE)
- Society of Automotive Engineers (SAE)
- Scaffold and Access Industry Association (SAIA)
- A92 standard subcommittees (2012 - 2017)
  - o ANSI/SAIA A92.20 Design of Aerial Devices
  - o ANSI/SAIA A92.22 Safe Use Aerial Devices
  - o ANSI/SAIA A92.24 Training to Operate, Inspect, and Maintain Aerial Devices

### **College Education**

Bachelor of Science in Mechanical Engineering  
University of Nebraska at Lincoln, 1993

Testimony history available upon request.

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