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## Curriculum Vitae of Bradley D. Closson

### EXPERIENCE

#### **October 2004 to Present -CRAFT Forensic Services, Bonita, CA – President.**

- Provide material handling accident investigation, reconstruction and litigation services.
- Provide consultation, support and presentation services in the areas of material handling management, equipment operation, new equipment evaluation and equipment-associated personnel training issues.
- Current Member on the Board on Safety Codes and Standards of the American Society of Mechanical Engineers (ASME), its Vice-President from 2003 - 2006 overseeing the development of safety codes and standards including the A17 on Elevators, B30 on Cranes and B56 on Forklifts. Additionally I was the Chairman of the ASME Board on Hearings and Appeals from 2011 to 2014 and the 2011 Recipient of the ASME Dedicated Service Award and 2015 Recipient of the ASME Safety Codes and Standards Medal.
- Current Member of the ASME B30 Safety Standard Committee for Cableways, Cranes, Derricks, Hoists, Hooks, Jacks, and Slings since 1988, its Vice Chairman from 2002 to 2008 and Chairman from 2014 to 2017. This committee develops the design, construction and operation safety criteria that are the basis for federal and state OSHA regulations. Subcommittee Memberships have included:
  - B30.3 Tower Cranes
  - B30.4 Portal and Pedestal Cranes
  - B30.5 Mobile Cranes
  - B30.7 Base Mounted Drum Hoists
  - B30.8 Floating Cranes and Derricks
  - B30.23 Personnel Lifting Systems
  - B30.28 Load Positioners
- Current Member of the United States Technical Advisory Group (TAG) to “ISO TC–96”, the International Standards Organization, standard development group addressing “Cranes” and ISO TC-8/SC4-WG addressing “Maritime Cranes”.
- Past Member and currently a Contributing Member of the ASME P30 Safety Standard Committee on Planning for the use of Cranes, Derricks, Hoists, Cableways, Aerial Devices, and Lifting Accessories.
- Licensed as a State of California Crane Surveyor for all categories of cranes until August, 2006.
- Current Member of the California OSHA Advisory Board on Crane, Rigging and Material Handling regulations.

#### **September 1992 to September 2004 - N.A.C.B. Technical Services, Inc., San Diego, CA -**

##### **Vice President, Various Corporations of the N.A.C.B. Group, Orlando, FL.**

- Performed inspections as mandated by Federal, State, Local and Industry regulations on all categories of mobile cranes, overhead cranes, tower cranes, fixed cranes, aerial devices, industrial trucks and rigging equipment.
- Provided consultation and support services in the areas of material handling management, equipment operation, equipment associated personnel training and litigation activities.
- Provided material handling accident investigation and reconstruction services.
- Spoke at lifting industry professional development sessions and at scheduled classes on material handling regulations and management, inspection, operation and rigging.
- Instructed at the University of California OSHA Institute. Courses included the Federal “Trainer Course”, "Introductory Course" and the California “Mobile Crane Inspector”.
- President of the Association of Crane and Rigging Professionals 1995 to 1997.
- Participated on Federal OSHA’s Crane Workgroup reviewing the 29 CFR 1926, Construction Crane standards and California OSHA's Advisory Committee on Cranes.
- Participated on the National Commission for the Certification of Crane Operators (CCO) task force that defined the National Crane Operator Certification criteria.

- Authorized as a 29 CFR 1919 Signatory Authority for the inspection of Floating Cranes and Derricks, Shore Based Material Handling Equipment and Non-destructive Evaluation.
- Licensed as a State of California Crane Surveyor for all categories of cranes. Member of the State of California Advisory Board on crane related regulations.
- Approved as a State of Nevada Crane Inspector and Crane Operator Trainer.
- Certified as a Washington State Crane Inspector.

**April 1979 to July 1992 - National Steel and Shipbuilding Company, San Diego, CA -**

**Various shipbuilding design and management positions - 4/1979 to 1/1986,  
Cranes, Rigging and Transportation Department Manager - 2/1986 to 7/1992.**

- Managed the daily operation, inspection and maintenance of:
 

6 Portal Cranes	2 Truck Cranes	4 Hydraulic Boom Lift Trucks
6 Mobile Tower Cranes	3 Fixed Tower Cranes	40 Industrial Fork Trucks
4 Hydraulic Cranes	75 Overhead Cranes	7 Busses and Trucks
56 Carts and Trailers	1 Rigging Fabrication and Hoist Repair Facility	
6 Floating Barges	2 Dry Docks	3 Tugboats 11 Mooring Berths
- Developed, implemented and maintained inspection programs that monitored equipment condition and scheduled necessary, and mandated, inspections and tests.
- Personally monitored and performed the daily and weekly inspections of material handling equipment and rigging components that supported the facilities 350-ton single lift capacity.
- Personally performed regular inspections of all land and water borne equipment for material condition, future maintenance needs and correct operational configurations.
- Reviewed, approved and monitored repair activities associated with all material handling equipment. Equipment included those listed above and 250-ton lifting beams, alloy steel chain slings, fittings, nylon/Kevlar slings and all configurations of attachment hardware.
- Performed design review of 15 new crane installations and numerous mobile-equipment purchases to insure compliance with all applicable ANSI and OSHA requirements.
- Performed calculation and application reviews on temporary floating crane applications to ensure all potential safety issues were considered. Review included vessel structure and stability, operational configuration limitations and crane limitations.
- Performed acceptance inspections on nine new crane installations with capacities ranging from 1 ton to 35 tons. Crane configurations ranged from wall cranes to full gantries.
- Performed pre-purchase inspections on two 130-ton mobile portal tower cranes to determine structural and mechanical condition and design compliance with regulatory requirements.
- Developed, implemented and maintained Equipment Operator Training and Certification Programs to satisfy all requirements of Federal OSHA, California OSHA and American National Standards B30 and B56 documents. Training programs covered crane operation, rigging skills and practices and industrial truck operation. After implementation, I monitored all programs to assure content and quality.
- Monitored and directed the lift planning process for crane loads ranging from small size, high value, loads to large size, high weight and volume loads to assure that all aspects of safe lift planning and lifting practices were addressed and in compliance.
- Performed as the Owners, On-Site Representative during the construction of a 620 foot, 25,400 ton, floating dry dock outfitted with 4 constant tension mooring winches, a 35 metric ton electric, level luffing, portal crane and multiple deck mounted capstans. I personally monitored all aspects of the dry dock construction, equipment installation, pre-operation inspection and operational testing. Responsible for ensuring that all equipment met the requirements of the applicable Federal Regulations and US Navy performance standards.
- Performed as Ship Repair Manager for a U.S. Navy Destroyer. Personally inspected repair actions on the ships davits, winches, windlasses, hoists, propulsion systems and hull structure.

**June 1967 to Sept 1991 - United States Navy, Atlantic and Pacific Fleets – 6/1967 to 4/1979,  
US Naval Reserves - 4/1979 to 6/1981 (Active), 6/1981 to 9/1991 (Inactive).**

- Served on five surface ships and at four shore installations as Operations Officer, Combat Information Center Officer, Intelligence Officer, Navigation Officer, Legal Officer, Midshipman and Aide.
- Qualified as a Surface Warfare Officer, Tactical Action Officer, Command Duty Officer, Electronic Warfare Officer, Navigation Officer, Engineering Watch Officer and Intelligence Officer.
- Awarded the Navy Commendation Medal and numerous Letters of Commendation.
- Achieved rank of Lieutenant Commander.

**EDUCATION**

- Mar 2007** - Society of Automotive Engineers International - Wet Brake and Clutch Technology. Covered the design and operational considerations regarding the mechanics of the systems and their friction materials.
- May 2000** - Bendix / Allied Signal - Air Brake System Design, Inspection and Operation. Covered the air brake component applications as well as their inspection and safe operating practices.
- Mar 1994** - Diablo Canyon Nuclear Power Plant, San Luis Obispo, CA - Nuclear Power Plant Safety Procedures and Practices.
- Apr 1993** - The Von Corporation, Birmingham, AL - Nondestructive Dielectric Testing Course. Covered the theory and practice of performing dielectric tests on electrically insulating components and equipment.
- May 1992** - National Steel and Shipbuilding, San Diego, CA - Shipyard Competent Person Course. Covered confined space safety, chemical exposure limits, inspection procedures and documentation requirements.
- Feb 1991** - National Steel and Shipbuilding, San Diego, CA - Scaffolding Safety and Inspection Course. Covered the safety and regulatory requirements of scaffold structures as well as operational inspections.
- May 1990** - National Steel and Shipbuilding, San Diego, CA - High Reach Equipment Inspection and Operation Course. Covered the pre-operation inspection and safe operating practices for equipment up to 80 feet in reach.
- May 1988** - Crane Inspection and Certification Bureau, Orlando, FL - Personnel Lifting Course. Covered Federal Requirements for Crane Suspended Personnel Carriers.
- Apr 1988** - University of Wisconsin, Madison, WI - Overhead Crane Safety Course. Covered crane and building design, maintenance and inspection criteria related to Overhead Cranes.
- Jan 1983 to Mar 1984** - American Management Associations, New York, NY - Management Course. Graduate level study in Corporate Management.
- Sep 1976 to Mar 1977** - Surface Warfare School, Newport, RI - Graduate level study in Mechanics, Electronics and Steam propulsion.
- Jun 1975 to Jun 1976** - U.S. Naval War College, Washington, DC - Graduate level study in National Strategy and Policy.
- Sep 1971 to Aug 1977** - Naval Training Command, Atlantic and Pacific - Electronic Communication, Electronic Intelligence, Nuclear Weapons, Oceanography, Shipboard Damage Control and Helicopter Operation Courses.
- Aug 1971 to Sep 1971** - Naval Justice School, Newport, RI - Navy Legal Officer, Non-JAG. Study in Military and Civilian Law.
- Jun 1967 to Jun 1971** - U.S. Naval Academy, Annapolis, MD - BS with a major in Analytical Management and Naval Science.

**MEMBERSHIPS**

Member	American Society of Mechanical Engineers	(ASME)
Member	American Society of Naval Engineers	(ASNE)
Member	American Society of Safety Engineers	(ASSE)
Member	Association of Crane and Rigging Professionals	(ACRP)
Member	Crane Certification Association of America	(CCAA)
Member	Society of Automotive Engineers	(SAE)
Member	Society of Naval Architects and Marine Engineers	(SNAME)
Associate	American Society of Civil Engineers	(ASCE)

**PRESENTATIONS and PUBLICATIONS**

- 2016 Web Sling and Tie-Down Association – “A Layman’s Perspective of Product Liability Lawsuit Preparation”
- 2015 American Society of Mechanical Engineers – “ASME Material Handling Standards”.
- 2012 NACB Professional Development Conference– “Accident Investigation – Techniques, Traps and Tricks”.
- 2011 Crane and Rigging Conference – Las Vegas – “Limiting Your Exposure in an Accident – It’s the paperwork”.
- 2010 Crane and Rigging Conference – Houston - “Crane Operation and Inspection Safety - It's the little things”.

- 2009 NACB Profession Development Conference– “Crane Operation and Inspection Safety - It's the little things”.
- 2009 Crane Certification Association of America, CCAA – “Invisible Hazards”.
- 2009 “The Problem with De-Rating Cranes”, April - Crane Hotline
- 2008 American Society of Safety Engineers - "Crane Safety - Platitudes or Practices".
- 2007 American Petroleum Institute – “Polar Plotting for Accident Investigation”.
- 2007 Association of Crane and Rigging Professionals, ACRP – “Polar Plotting for Planning and Accident Investigation”.
- 2006 Crane Certification Association of America, CCAA – “Post Accident Documentation”, and “ASME / ANSI Crane Standards”.
- 2006 U.S. Department of the Interior, MMS – “ASME Material Handling Standards”.
- 2006 "Points to Remember when Lifting People", Cranes Today Magazine.
- 2005 CON/AG EXPO – “Personnel Lifting Safety Requirements”.
- 2004 NACB Profession Development Conference– “Wind and Ground Condition Hazards”.
- 2004 CCAA Annual Convention– “Crane Safety Consensus Standards and Regulations”.
- 2004 Tree Care Industry Association Spring Convention– “Best Crane Practices”.
- 2003 NIST – CHINA Workshop–“U.S. Crane Safety Standards and Regulations”.
- 2002 CON/AG EXPO – “Personnel Lifting– Comparison of Requirements”.
- 2001 UAW / GM Joint Safety Meeting– “Crane Rigging – Inspection and Use”.
- 2000 UAW / GM Joint Safety Meeting– “Crane Laws and Consensus Standards”.
- 2000 Association of Crane and Rigging Professionals– “Crane Capacity Calculations”.
- 2000 IUE / DELPHI Joint Safety Meeting– “Overhead Crane Regulations and Standards”.
- 1999 UAW / GM Joint Safety Meeting– “Overhead Crane Inspection and Safety Issues”.
- 1999 California OSHA Licensed Inspector Meeting–“B30 Standard in California”.
- 1999 California OSHA Licensed Inspector Meeting– “Crane Operator Qualifications”.
- 1999 International Telecommunications Conference– “Aerial Device and Crane Safety”.
- 1998 Association of Crane and Rigging Professionals–“Personnel Lifting Safety”.
- 1997 Washington Crane Safety Association– “Working near High Voltage Lines”.
- 1997 Association of Crane and Rigging Professionals– “Working near High Voltage Lines”.
- 1997 Associated Wire Rope Fabricators– “Synthetic Roundslings Safety Standards”.
- 1997 Association of General Contractors– “Crane Safety Management”.
- 1996 Association of General Contractors– “Safety and liability using rented cranes”.
- 1995 Systems Safety Association– “Lifting Equipment Inspections to Ensure Safety”.
- 1995 Specialized Carriers and Riggers Association–“Mobile Crane Electrical Safety”.
- 1994 Associated Wire Rope Fabricators– “Status of Lifting Safety Standards”.
- 1994 Southern California Industrial Safety Society– “Crane Safety”.
- 1993 National Safety Council–“Mobile Crane Safety”.
- 1993 Specialized Carriers and Riggers Association–“Crane Consensus Standards”.
- 1993 Crane Works, September-October, “Acknowledging the blind lift”.
- 1986-1992 NASSCO –“Shipyard Crane, Rigging and Transportation Operations Safety Considerations”-“New Hire” and “Engineers in Training” orientation.
- 1978-1979 USS Turner Joy – “Shipyard Safety Orientation” – New crewmember orientation.