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## I. Technical Area of Specialization

### A. Accident Investigation; Engineering, Safety, and Product Liability

Provide consultation and litigation services on material handling failures, engineering design defects, manufacturing defects, compliance, both nationally and internationally supporting attorneys, insurance companies and equipment end user companies. Services include the following areas;

- ✓ Equipment failures
- ✓ Personnel injuries
- ✓ Evaluation and review of equipment management
- ✓ Maintenance Failures
  - Policy and Procedures
  - Services
  - Repairs
  - Inspection
  - Reliability and Engineering
  - Safety
- ✓ Equipment operation,
- ✓ Personnel training,
- ✓ Regulatory compliance
- ✓ Engineering lift design evaluation,
- ✓ Planning and review,
- ✓ Maritime Investigation
  - Naval architecture
  - Marine engineering
  - Equipment Failure
  - Compliance

### B. Equipment, Process, and System Compliance

- ✓ Federal OSHA Compliance Across Industries
- ✓ State OSHAs
- ✓ National Consensus Safety Standard
- ✓ Maintenance, Inspection, and Repair Services
- ✓ Department of Energy Compliance
- ✓ Military Standards, and Specifications

## II. Court Appearances

- ✓ States and Federal Courts

## III. Safety Presentation and Training Classes Conducted at National Steel and Shipbuilding

- ✓ Confined Space
- ✓ Forklift, Industrial Powered Lifts Class and Practical Training
- ✓ Personal Protection Equipment, PPE
- ✓ Ergonomics
- ✓ Machining Guarding
- ✓ Confined Spaces
- ✓ Housekeeping
- ✓ Basic, Intermediate and Advance Rigging
- ✓ Basic Rigging for Shipyard Trades
- ✓ Respirator
- ✓ Hand and Power Tool
- ✓ Tower Crane Operator Training Qualification
- ✓ Portal Crane Operator Training Qualification
- ✓ Mobile Hydraulic Crane Operator Qualification
- ✓ Forklift, Powered Industrial Trucks Operator Qualification
- ✓ Aerial Devices

## IV. Training And Development

### A. National Steel and Shipbuilding

- ✓ Cost Schedule Control Systems criteria
- ✓ Crosby Rigging Equipment Training, Risk and Compliance
- ✓ Shipyard Competent Person Course. Covered confined space safety, chemical exposure limits, asbestos abatement, inspection procedures and documentation requirements.
- ✓ Scaffolding Safety and Inspection Course. Covered the safety and regulatory requirements of scaffold structures as well as operational inspections.
- ✓ High Reach Equipment Inspection and Operation Course. Covered the pre-operation inspection and safe operating practices for equipment up to 126 feet in reach
- ✓ Fall Protection Course, training in inspection, and safe operating practices
- ✓ Hazard communication course, training in identifying, protection and handling hazardous materials.
- ✓ Safety, inspection and regulatory compliance of rigging hardware, and lift equipment.

- ✓ AREVA, Tribon Integrated Hull Design, Lines, and Hydrodynamic Modelling Software
- ✓ Ship Production Technology
- ✓ Manufacturing Technology Tools Training
- ✓ Engineering System Design; Safety – Hazards and Risk Mitigation, Risk – Utility Analysis

**B. NACB, West, Las Vegas Nevada**

- ✓ Crane and Rigging Training and Regulatory Compliance

**C. Halfmoon LLC, San Diego Ca**

- ✓ Legal Issues for California Professional Engineers; Practice of Professional Engineer Board Procedures, Professional Liability Insurance Law of Engineering Malpractice

**D. Project Management Institute, Denver, Colorado**

- ✓ Project Risk Management

**E. American Management Associations, New York, NY**

- ✓ New Managers Training Course

**F. Morrows Salem Oregon**

- ✓ Morrows Tower Crane Training

**V. Typical Material Handling Equipment**

<b>Material Handling; Compliance, Maintenance; Personnel Training</b>
<b>Rigging Equipment Description</b>
Hoists; Chain-Falls pneumatic, hydraulic, and electric
Come-a-longs
400-ton Hydraulic 4-Point Lifting System Jacks,
Mobile tower cranes, Portal Cranes
Overhead, jib cranes, Monorails, and Underhung cranes
Aerial Devices, Personnel Lifting Systems
Mobile Cranes, Articulating Cranes
RMGs, RTG Container Cranes
Tower Cranes, Portal Cranes

Ship to Shore Cranes, STS Container Cranes
Industrial Fork Trucks, Top Handlers (Container Handler)
Full-function Rigging Fabrication and Hoist Repair and Test Facility
Below-the-Hook Lifting Devices; Spreader Bars
Rigging Hardware; Slings, Wire rope and Synthetic, Pressure grip devices
Hydraulic Platform Transporters
Rollers; Hillman
Air Bearings
Crane Operator Training Programs
Forklift Operator Training Program
Full-Service Advance Rigger/ Signal Person Training Program
Rigging School Training Program
Regulatory compliance includes Federal OSHA, California OSHA, US Coast Guard,
Industry Standards Compliance Includes, ASME, ANSI, ASTM, ISO, ABS, WSTDA, ALI, CSA

## VI. ASME B30 Main Committee Member:

### A. Safety Standard for Cableways, Cranes, Derricks, Hoists, Hooks, Jacks, and Slings

- ✓ B30.1 – Jacks, Industrial Rollers, Air Casters, and Hydraulic Gantries
- ✓ B30.2 Overhead and Gantry Cranes (Top Running Bridge, Single or Multiple Girder, Top Running Trolley Hoist)
- ✓ B30.3 Construction Tower Cranes
- ✓ B30.4 Portal, Tower, and Pedestal Cranes
- ✓ B30.5 Mobile and Locomotive Cranes
- ✓ B30.6 Derricks
- ✓ B30.7 Base Mounted Drum Hoists
- ✓ B30.8 Floating Cranes and Floating Derricks
- ✓ B30.9 Slings
- ✓ B30.10 Hooks
- ✓ B30.11 Monorails and Underhung
- ✓ B30.12 Handling Loads Suspended From Rotorcraft

- ✓ B30.13 Storage/Retrieval (S/R) Machines and Associated Equipment
- ✓ B30.14 Side Boom Tractors
- ✓ B30.16 Overhead Hoists (Underhung)
- ✓ B30.17 Overhead and Gantry Cranes (Top Running Bridge, Single Girder, Underhung Hoist)
- ✓ B30.18 Stacker Cranes (Top or Under Running Bridge, Multiple Girder With Top or Under Running Trolley Hoist)
- ✓ B30.19 Cableways
- ✓ B30.20 Below-the-Hook Lifting Devices
- ✓ B30.21 Manually Lever Operated Hoists
- ✓ B30.22 Articulating Boom Cranes
- ✓ B30.23 Personnel Lifting Systems
- ✓ B30.24 Container Cranes
- ✓ B30.25 Scrap and Material Handlers
- ✓ B30.26 Rigging Hardware
- ✓ B30.27 Material Placement Systems
- ✓ B30.28 Balance-Lifting Units
- ✓ B30.29 Self-Erecting Tower Cranes
- ✓ B30.30 Ropes
- ✓ B30.31 Self-Propelled, Towed, or Remote-Controlled Hydraulic Platform Transporters
- ✓ B30.32 Unmanned Aircraft Systems (UAS) Used in Inspection, Testing, Maintenance, and Lifting Operations

## **VII. ASME P30 Member Committee**

### **A. P30.1 Standard**

- ✓ Planning for the Use of Cranes, Derricks, Hoists, Cableways, Aerial Devices

## **VIII. ASME BTH Committee Member**

### **A. BTH-1 Standards**

- ✓ Design of Below-the-Hook Lifting Devices

## **IX. Society Membership**

- ✓ American Society of Mechanical Engineers, ASME, 9237314
- ✓ National Society of Professional Engineers, NSPE, N00022233
- ✓ Society of Automotive Engineers, SAE, 6122787603
- ✓ Project Management Institute, PMI, 360724
- ✓ American Society of Safety Professionals, ASSP, 010047858

- ✓ American Society of Civil Engineers, ASCE, 10366758
- ✓ Association of Crane and Rigging Professional, ACRP, Board Member Currently

## **X. Education, Licensure, and Board Certification**

### **A. EDUCATION**

- ✓ **MScBA**, Master of Science in Business Administration  
SAN DIEGO STATE UNIVERSITY, San Diego, California
- ✓ **BScE**, Bachelor of Science in Engineering  
UNIVERSITY OF MICHIGAN, Ann Arbor, Michigan

### **B. Registered Professional Engineer**

- ✓ State of California
- ✓ State of Hawaii
- ✓ State of Pennsylvania
- ✓ State of New Jersey

### **C. National Academy of Forensic Engineer Board Certification**

- ✓ DFE, Diplomate Forensic Engineer, 795M, NAFE Board Certified

## **XI. Publication and Presentations**

- ✓ **Planning, Production Processes & Facilities Panel, Development of Course Material for Training Rigging Engineers.**  
Final Report by National Steel and Shipbuilding Company, Initial Design & Naval Architecture, *27 Feb 2012, Reviewer*
- ✓ **Journal of the National Academy of Forensic Engineers, Vol. 32 No. 1 June 2015**  
Forensic Engineering Investigation and Analysis of a Tower Crane Collapse
- ✓ **Tokio Marine HCC – Casualty Group, Presentation 27 August 2019**  
Tower Cranes in Construction, An Overview