

EDWARD C. GUERRA

Crane Operations Consultant / Expert Witness

Principal Consultant | Crane Risk Authority, LLC

Pittsburgh, Pennsylvania

(786) 578-2567 • edward.guerra@craneriskauthority.com

www.expertcranewitness.com

Professional Summary

Crane operations professional with more than 35 years of progressively responsible experience involving crane operations, rigging, lift planning, heavy equipment, construction safety, workforce supervision, and operational risk management.

Founder and Principal Consultant of Crane Risk Authority, LLC, providing independent consulting and expert witness services related to crane operations, construction accidents, heavy lifting activities, OSHA compliance, ASME B30 standards, accident causation, and accepted industry practices.

Professional services include site inspections, forensic documentation, technical analysis, expert report preparation, deposition testimony, and trial testimony in support of litigation, insurance claims, and accident investigations.

Areas of Expertise

Crane Operations

- Mobile Crane Operations
- Lift Planning
- Critical Lift Planning
- Lift plan development utilizing AutoCAD
- Rigging Practices
- Signalperson Operations
- Lift Director Responsibilities

Accident Investigation

- Crane Accident Investigation
- Root Cause Analysis
- Site Inspections
- Photographic Documentation
- Site Measurements
- Equipment Documentation

Standards & Compliance

- OSHA Regulations
- ASME B30 Standards
- ANSI Standards
- Construction Safety
- Hazard Recognition
- Operational Risk Management

Litigation Expert Witness Services

- Technical Report Preparation
- Document Review
- Litigation Support
- Deposition Testimony
- Trial Testimony
- Expert Consultation

Representative Industry & Project Experience

Representative experience includes crane operations, lift planning, and heavy lifting activities supporting projects such as:

- Commercial high-rise construction
- Bridge and transportation infrastructure
- Steel erection
- Industrial manufacturing facilities
- Petrochemical facilities
- Power generation facilities
- Steel mills
- Natural gas compressor stations
- Rail yards and intermodal terminals
- Airports
- Hospitals and healthcare facilities
- Educational facilities
- Marine and cruise vessel construction, refurbishment, and heavy component installation
- Wind energy infrastructure maintenance, including major component replacement
- Heavy equipment installation and relocation
- Plant shutdowns and maintenance outages
- Water and wastewater treatment facilities

Specialized Lifting Experience

- Critical lift planning and execution
- Tandem crane lifts
- Heavy equipment setting and removal
- Industrial machinery installation and relocation
- Structural steel erection
- Wind turbine blade and major component replacement
- Marine vessel installation of architectural features, mechanical equipment, HVAC systems, pools, waterslides, and mature landscaping
- Precision lifts in confined and restricted-access environments

Professional Experience

A CRANE RENTAL, LLC

Mobile Crane Operator

Dravosburg, Pennsylvania

November 2016 – Present

Responsible for the safe operation of mobile cranes supporting commercial, industrial, infrastructure, and heavy construction projects. Regularly selected to mentor crane operator apprentices through hands-on field training, providing guidance in crane setup, lift planning, safe operating practices, and jobsite decision-making as they progress toward independent operator qualification.

Representative Areas of Responsibility:

- Mobile crane operations
- Lift planning and critical lift execution
- Load chart interpretation
- Rigging coordination
- Equipment inspections and operational readiness
- Leadership and coordination of crane crews during lifting operations
- Mentoring and development of crane operator apprentices through structured field training
- OSHA and ASME compliance

ANTHONY CRANE USA

Mobile Crane Operator

Dravosburg, Pennsylvania

January 2011 – October 2016

Performed mobile crane operations supporting commercial, industrial, and heavy construction projects. Responsibilities included crane setup, lift execution, rigging coordination, equipment inspections, load chart interpretation, and compliance with OSHA regulations, ASME B30 standards, and company safety procedures.

ANTHONY CRANE USA

Mobile Crane Operator

Fort Lauderdale, Florida

March 2005 – January 2011

Performed mobile crane operations on commercial and industrial construction projects throughout South Florida.

Concurrent Assignment – Sales Representative (2007)

Served in a business development role responsible for maintaining customer relationships, identifying new business opportunities, and supporting crane rental operations while maintaining technical knowledge of lifting applications and customer project requirements.

MAXIM CRANE WORKS

Mobile Crane Operator

Fort Lauderdale, Florida

February 1998 – March 2005

Company operated as Anthony Crane USA until its acquisition by Maxim Crane Works in 1999.

Performed mobile crane operations supporting commercial construction, industrial facilities, infrastructure projects, and heavy lifting operations. Developed extensive field experience operating a variety of mobile crane configurations while working with contractors across multiple industries.

GOLD COAST CRANE SERVICE

Mobile Crane Operator

Hollywood, Florida

January 1995 – February 1998

Performed mobile crane operations supporting commercial construction projects and developed proficiency in crane setup, lift execution, rigging practices, and safe jobsite operations.

ALL CRANE RENTAL OF FLORIDA

Mobile Crane Operator

Apopka, Florida

January 1994 – January 1995

Performed mobile crane operations on commercial construction projects with responsibility for safe equipment operation, lift execution, and compliance with established safety procedures.

GOLD COAST CRANE SERVICE

Oiler

Hollywood, Florida

March 1992 – January 1994

Supported crane operations by assisting with equipment setup, inspections, preventive maintenance, rigging activities, and daily operational readiness while developing practical field experience under the supervision of experienced crane operators.

Instructional & Mentoring Experience

Crane Operations Instructor & Mentor

25+ Years

More than 25 years of experience instructing, mentoring, supervising, and evaluating crane operators, apprentices, riggers, signalpersons, and construction personnel in safe lifting operations, crane operations, lift planning, hazard recognition, and industry best practices.

Provides instruction through safety meetings, toolbox talks, lift planning discussions, internal company training, and hands-on field mentoring. Regularly mentors crane operator apprentices through structured field instruction, emphasizing technical competency, sound judgment, operational planning, safe work practices, and professional responsibility.

Representative Areas of Instruction & Mentorship:

- Mobile crane operations
- Lift planning and critical lift execution
- Lift plan development utilizing AutoCAD
- Rigging practices
- Signalperson responsibilities
- Load chart interpretation
- Equipment inspections and operational readiness
- OSHA and ASME compliance
- Hazard recognition and risk management
- Safety meetings
- Toolbox talks
- Internal company training
- Crane operator apprentice development

Professional Associations

Specialized Carriers & Rigging Association (SC&RA) – Member

Professional association supporting the crane, rigging, heavy lifting, and specialized transportation industries.

American Society of Mechanical Engineers (ASME) – Member

Maintains current knowledge of industry standards governing cranes, rigging, lifting devices, and the ASME B30 standards.

Associated General Contractors of America (AGC) – Member

Professional association supporting best practices in commercial and industrial construction, project management, and jobsite safety.

American National Standards Institute (ANSI) – Member

Maintains current knowledge of nationally recognized consensus standards applicable to construction, industrial operations, equipment, and workplace safety.

OSHA Education Center Association – Member

Participates in continuing professional education related to OSHA regulations, workplace safety, hazard recognition, and regulatory developments.

SEAK, Inc. – Member

Graduate of SEAK Expert Witness Training.

Participates in continuing education focused on expert witness methodology, report preparation, deposition testimony, courtroom presentation, ethics, and litigation best practices.

JurisPro – Member

Professional expert witness directory utilized by attorneys and law firms to identify qualified expert witnesses and litigation consultants.

Certifications & Licenses**National Commission for the Certification of Crane Operators (NCCCO)****Certified Crane Operator**

Expires: October 31, 2027

- Lattice Boom Crawler (LBC)
- Telescopic Boom Swing Cab (TLL)
- Telescopic Boom Fixed Cab (TSS)
- Service Truck Crane (STC)

Certified Lift Director

Expires: January 31, 2027

Certified Rigger

Expires: January 31, 2027

- Level II
- Level I

Certified Signalperson

Expires: January 31, 2027

Telecommunications Tower Rigger - Level I

Expires: January 31, 2027

Additional Professional Certifications

- OSHA 10 Construction
- Forklift Operator Certification

Professional Licenses

- Pennsylvania Commercial Driver License (Class A CDL)
- New York State Crane Operator License – Practical Examination Scheduled September 1, 2026 (*Pending Licensure*)

Specialized Training

SEAK, Inc.

Expert Witness Training

Completed formal expert witness training in report preparation, deposition testimony, courtroom presentation, ethics, and litigation methodology.

Mine Safety and Health Administration (MSHA)

Completed Mine Safety and Health Administration (MSHA) safety training emphasizing:

- Hazard recognition
- Safe work practices
- Equipment operations
- Emergency procedures
- Regulatory compliance

Broward College

Emergency Medical Technician / Paramedic Training • 1993

Completed formal emergency medical training emphasizing patient assessment, trauma response, emergency scene management, hazard recognition, and critical decision-making.

Military Service

United States Marine Corps (Honorable Service)

1991–1995

Served honorably in the United States Marine Corps, developing leadership, discipline, teamwork, adaptability, and sound decision-making while operating in demanding and high-pressure environments.

Litigation Support & Consulting Services

Representative consulting and expert witness services include:

- Crane accident investigations
- Site inspections
- Photographic documentation
- Site measurements and documentation
- Lift planning evaluations

- OSHA compliance evaluations
- ASME B30 compliance evaluations
- Root cause analysis
- Equipment inspections
- Construction safety evaluations
- Technical report preparation
- Deposition testimony
- Trial testimony
- Coordination with forensic specialists, including 3D laser scanning and mapping, when required

Additional project history, representative matters, references, and prior testimony lists are available upon request, subject to client confidentiality.