

Jared A. Krupa, P.E.

Professional Civil Engineer and Amusement Ride Enthusiast

Jared A. Krupa is a principal civil engineer at *K2 Engineering and Structural Design*. He holds a Bachelor's of Science degree in Civil Engineering from the University of Nevada, Reno and Professional Engineering licenses in Arizona, California, Colorado, Florida, Hawaii, Idaho, Illinois, Kentucky, Nevada, New York, Ohio, Oregon, Pennsylvania, Tennessee, Texas, Washington, and Wyoming. His consulting and research interests include designing and engineering structures, zip lines, foundations and amusement ride inspections.

Jared is an active member in several amusement ride organizations and is the chair of the ASTM committee responsible for writing zip line safety standards. ASTM is comprised of volunteers who donate their time to help better an evolving industry and is responsible for writing and maintaining internationally recognized standards.

Jared is an active member of the Association for Challenge Course Technology (ACCT) which is an organization recognized by many as the world leader in setting the minimum safety and design standards for the zip line and challenge course industry, a member of the American Society of Civil Engineers (ASCE) which is a nationally recognized society for professional engineers responsible for legislating engineers in the US, an International Code Council (ICC) member which is the internationally recognized standard for building codes, and he is registered with the National Council of Examiners for Engineers and Surveyors (NCEES) which is a nationally recognized registration council aiding Professional Engineers (PE) for licensure in all 50 states in the United States.

Jared is listed by Clark County, Nevada and the City of Las Vegas as an Amusement Ride Quality Assurance Inspector (ARQAI), a California Division of Occupational Safety and Health (DOSH) Amusement Ride Qualified Safety Inspector (QSI), a board certified ACCT Level II Inspector and a NAARSO Level I inspector.

Jared Krupa is a proud member of the Benevolent and Protective Order of Elks and has actively served in numerous charity and veterans events across the USA.



Jared A. Krupa, P.E.

Professional Civil Engineer
Certified ACCT Level II Zip Line Course Inspector
California (USA) Amusement Ride Inspector
City of Las Vegas, Nevada Amusement Ride Inspector
USGBC LEED Green Associate
ATC-20 Post Earthquake Building Evaluator
NAARSO Certified Amusement Ride Inspector

K2 Engineering and Structural Design
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Reno, NV 89511
775-355-0505
jared@k2eng.net

Education:

University of Nevada, Reno
Bachelor of Science, Civil Engineering, 2000

Continuing Education:

- Structural Analysis
- High Strength Cable Design
- Structural Concrete Design
- Metal Building Design
- Anchoring to Concrete Structural Design
ACI 318
- Timber Design
- Structural Steel Design
- Masonry Design
- Open Channel Flow
- Earth Anchor Design
- Simpson Strong-Tie Lateral Systems and
Connector Technology
- IBC Wind and Seismic Design
- RISA Technologies
- AutoCAD / Revit Drafting
- Environmental Law

Experience:

Principal Engineer K2 Engineering and Structural Design Reno, NV

February 2005 – Present

- Analyze high strength cable profiles for various rider and environmental loading requirements
- Analyze existing structures for seismic resistance and design seismic retrofit elements.
- Complete structural design and detailing of residential and commercial structures using wood, concrete, CMU, and steel.
- Perform all necessary engineering calculations and structural design for all projects including foundation design, seismic & wind, lateral load resisting systems, and framing for vertical load resistance.
- Perform civil engineer design and analysis for site, grading, drainage, and utility plans.
- Perform structural design and analysis of retaining structures using concrete, CMU, and rockery walls.
- Perform structural design and analysis of zip-line rides and perform inspections.
- Supervise engineering work of employees.

Project Engineer Aesthetic Engineering Reno, NV

June 2000 - February 2005

- Completed structural design and detailing of residential and commercial structures using wood, concrete, CMU, and steel.
- Performed all necessary engineering calculations and structural design for all projects including foundation design, seismic & wind, lateral load resisting systems, and framing for vertical load resistance.
- Performed civil engineer design and analysis for site, grading, drainage, and utility plans.
- Structural design and analysis of retaining structures using concrete, CMU, and rockery walls.

Professional Organizations and Certifications:

- American Society of Civil Engineers (ASCE)
- ASTM International, F-24 Committee for
 - o Standards on Amusement Rides and Devices, Voting Member
 - o Subcommittee on Adventure Attractions, Voting Member
 - o Task Group Chairman on Aerial Adventure Course
- American Institute of Steel Construction (AISC)
- International Code Council (ICC)
- National Council of Examiners for Engineering and Surveying (NCEES)
- American Welding Society (AWS)
- Qualified Safety Inspector, DOSH Amusement Rides Unit, State of California
- Listed in Clark County and City of Las Vegas, Nevada
 - o Amusement Ride Quality Assurance Inspector
- U.S. Green Building Council Leadership in Energy & Environmental Design (LEED) Associate
- Applied Technology Council Post Earthquake Building Evaluator
- USPA Licensed Skydiver (inactive)
- PADI Advanced Open Water Diver
- AHA Healthcare Provider CPR Certified
- OSHA 10 Certification
- Missouri Authorized Amusement Ride Inspector
- Colorado Amusement Ride Inspector
- NAARSO Level 1 Inspector

Professional Activities:

- ASTM F24 Committee on Amusement Rides and Devices in formulating, authoring, updating and publication of numerous safety standards
- Attend society meetings concerning amusement ride safety
- Course Instructor for graduate level Design of Timber Structures at the University of Nevada, Reno (2004)
- Course Instructor for graduate level Design of Timber Structures at the University of Nevada, Reno (2011)
- Invited Guest Lecturer for graduate level Pre-Stressed Concrete Design at the University of Nevada, Reno (2014)
- PVM Lecturer for Reverse Engineering Zip Lines at ACCT conference (2014)
- PVM Lecturer for Operation Manuals for Zip Lines at ACCT conference (2014)

Professional Registrations:

- Nevada P.E., License No. 16874
- California P.E., License No. 67865
- Arizona P.E., License No. 50304
- Colorado P.E., License No. 47995
- Idaho P.E., License No. 12954
- Illinois P.E., License No. 062.066900
- Kentucky P.E., License No. 28035
- New York P.E., License No. 094248
- Oregon P.E., License No. 79615PE
- Tennessee P.E., License No. 118102
- Texas P.E., License No. 109355
- Washington P.E., License No. 43933
- Wyoming P.E., License No. 11584
- NCEES Record Holder

Personal:

- Married (1999 -), two daughters
- Benevolent and Protective Order of Elks