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Curriculum Vitae NATHAN H. MORRILL, P.E., CSP

PROFILE

Mechanical engineering expert with a bachelor's degree in Mechanical Engineering. A registered Professional Engineer and a Certified Safety Professional with 20 years experience in design, analysis, and safety, retained on 30+ cases with a variety of clients across multiple states. Participated in new product development, design optimization, stress and motion analysis, prototyping, testing, safety, and expert witness work on hundreds of projects and products. An experienced innovator dedicated to optimizing the safety and efficiency of your workforce.

WORK EXPERIENCE

Worked as an engineer with Alpine Engineering and Design, Inc. since 2000 and participated in all aspects of the product development process including research, concept generation and selection, detailed design, strength analysis, prototyping, testing, selecting and sourcing components, certification to standards, and safety analysis.

Worked on diverse design and analysis projects including: man lifts, refuse equipment, yard care equipment, exercise equipment, specialty trailers, liftgates, cranes, container covers, end dumps, belly dumps, side dumps, hydraulically operated mobile equipment, industrial plant equipment, safety equipment, machine guarding, high thrill rides, and zip lines.

SAFETY AND PRODUCT LIABILITY

Performed safety reviews for many companies including those ranked by Fortune 500. This work involved analyzing proper tooling and equipment and testing. Also assisted companies in assuring that their test facilities were properly designed for explosions should a failure occur.

Retained on a number of product liability suits for accident reconstruction, failure analysis, written reports and testified both in deposition and at trial. Assisted as a senior associate on 40+ product liability/personal injury cases.

**REGISTRATIONS,
CERTIFICATIONS,
AND
MEMBERSHIPS**

- Professional Structural Engineer (P.E.) licensed in Utah, # 5567105-2203
- Mechanical Professional Engineer (P.E.) licensed in Florida, # 72189
- Mechanical Professional Engineer (P.E.) licensed in Texas, # 120869
- Certified Safety Professional (CSP) from the Board of Certified Safety Professionals, CSP-30841
- Certified Lift Truck Operator
- Certified Lift Truck Operator Trainer
- Member of the National Associations of Amusement Ride Safety Officials
- Member of the American Society for Testing and Materials F24 Committee

EDUCATION

Bachelors of Science, *University of Utah*

Mechanical Engineering (2004)

Associates of Science, *Utah Valley State College*

Pre-Engineering (2001)

**INTELLECTUAL
PROPERTY**

Gained familiarity with patents and their role in the product development process during the course of employment at Alpine Engineering and Design, Inc. Performed patent searches for patentability, worked with attorneys to draft specifications and drawings, evaluated claims and worked with attorneys to create non-infringing designs. Key inventor on eleven US patents for products he helped develop, with other patents that have been applied for:

- US 7,341,157 Enclosed Reeving Live-Line Boom
- US 7,413,234 Tarping System for Open Top Containers
- US 7,458,629 Tarping System for Open Top Containers
- US 7,673,926 Tarping System for Open Top Containers
- US 7,762,616 Cross-member for a Trailer Frame
- US 7,954,877 Tarping System for Open Top Containers
- US 8,287,026 Tarping System for Open Top Containers
- US 8,998,287 Roll Tarp System
- US 9,415,667 Roll Tarp System
- US 10,071,619 Roll Tarp System
- US 10,683,176 Material Placer

Additional experience with the litigation of patents and other intellectual property including trade secrets and trade dress. Provided expert support including: infringement opinions, invalidity opinions, claim construction opinions, reports, claim charts, testing and prior art searching.