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## **Curriculum Vitae**

### **NATHAN H. MORRILL, P.E., CSP**

#### **MECHANICAL ENGINEERING EXPERT**

Nathan H. Morrill has a bachelor's degree in Mechanical Engineering, is a registered Professional Engineer, and a Certified Safety Professional. As the Engineering Project Manager at Alpine Engineering and Design, Inc. Mr. Morrill has participated in new product development, design optimization, stress analysis, motion analysis, prototyping, testing, safety, and expert witness work on hundreds of projects and products ranging from hydraulic equipment to consumer products.

#### **EDUCATION**

- Bachelors of Science, University of Utah, Mechanical Engineering (2004)
- Associates of Science, Pre-Engineering, Utah Valley State College (2001)

#### **REGISTRATIONS AND CERTIFICATIONS**

- 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
- National Association of Amusement Ride Safety Officials Level 1 Inspector, CN-3942
- Certified Lift Truck Operator
- Certified Lift Truck Operator Trainer

#### **WORK EXPERIENCE**

Mr. Morrill has been an engineer with Alpine Engineering and Design, Inc. since 2000. Mr. Morrill has worked 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.

Mr. Morrill has 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**

Mr. Morrill has performed safety reviews for many companies including those ranked by Fortune 500. This work has involved analyzing proper tooling and equipment and testing of such. Mr. Morrill has also assisted companies in assuring that their test facilities were properly designed for explosions that might occur should a failure occur.

Mr. Morrill has been retained on a number of product liability suits for which he has performed accident reconstruction, failure analysis, written reports and testified both in deposition and at trial. In addition he has assisted as a senior associate on 40+ product liability/personal injury cases.

## **INTELLECTUAL PROPERTY**

During the course of his work at Alpine Engineering and Design, Inc. Mr. Morrill has become familiar with patents and their roll in the product development process. Mr. Morrill has performed patent searches for patentability, worked with attorneys to draft specifications and drawings, has evaluated claims and worked with attorneys to create non-infringing designs. Mr. Morrill is an inventor on ten US patents for products he has 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

Mr. Morrill also has experience with the litigation of patents and other intellectual property including trade secrets and trade dress. He has provided expert support including: infringement opinions, invalidity opinions, claim construction opinions, reports, claim charts, testing and prior art searching.