



CURRICULUM VITAE
BRANDON CONLIN, P.E.

☎ 801-763-8484

✉ bconlin@alpineeng.com

🌐 www.alpineeng.com

PROFILE

Mechanical engineering expert (BSME, PE) with over a decade of experience taking projects from concept to operation in low- and medium-volume environments. Named inventor on two pending patents. Worked on the development of multiple successful products including, among other things: automated hillside elevators, passenger ropeways (ski lifts), amusement rides, autonomous agricultural equipment, commercial lawn mowers, trailers, oil and gas equipment, exercise equipment, and consumer products.

Earned a bachelor's degree in mechanical engineering while competing as an NCAA Division I athlete. Completed a minor in Mathematics and won back-to-back Men's Lacrosse National Championships in 2008 & 2009. Licensed professional engineer (PE), UDOT certified engineer and ropeway inspector, certified mobile crane inspector and rigging equipment inspector.

Steeped in principles of design for safety of automated and autonomous equipment. Skilled in ropeway design, maintenance, and operation. Significant practice in electric vehicle (EV) chassis layout, design & optimization across multiple products. Over a decade of experience in product development, equipment safety and risk assessments, and designing of equipment to OSHA regulations and industry safety standards. 3+ years hands-on experience as a mechanic. Lifelong skier and athlete.

WORK HISTORY

Expert Consultant Alpine Engineering & Design Alpine, UT	Dec 2022-Present
R&D Engineer Firefly Automatix Salt Lake City, UT	Oct 2021-Nov 2022
Production Engineer Firefly Automatix Salt Lake City, UT	Mar 2021-Sep 2021
Mechanical Engineer Skytrac Inc. Salt Lake City, UT	Jan 2014-Feb 2021
Lift Mechanic Big Sky Resort Big Sky, MT	Jul 2011-Dec 2013
Ski Rental Technician Boyne Mountain Boyne Falls, MI	Dec 2008-Jan 2009
Ski Rental Technician Big Sky Resort Big Sky, MT	Dec 2007-Jan 2008

EDUCATION

Bachelor of Science - Mechanical Engineering	2006-2010
Syracuse University	
Minor: Mathematics	
Athletic Scholarship: Lacrosse	

CERTIFICATIONS

- Professional Mechanical Engineer (PE)
 - Utah License # 13128013-2202
- Qualified Engineer and Ropeway Inspector
 - Utah Dept. of Transportation - Passenger Ropeway Safety Committee
- Certified Counterbalance Forklift Operator
- Certified Mobile Crane Inspector
- Certified Rigging Equipment Inspector
- OSHA 10-hour General Industry Safety and Health

PENDING PATENTS

During his time at Alpine Engineering and Design, Inc., Mr. Conlin has become familiar with patent prosecution and patent litigation. He has created drawings for utility patents on products he has helped design. As part of the product development process, he has performed patent searches, both for informational purposes and to lessen the likelihood that new developments would infringe other’s intellectual property. Mr. Conlin is a named inventor on two pending patent applications.

- US 2024/0409037 A1 - Bicycle Rack with Articulating Wheel Support
- US 2025/0162002 A1 - Apparatus, Methods and Systems for Tubular Inspection

EXPERT WITNESS

Mr. Conlin has been retained as an expert in twelve cases (eleven personal injury, one contract dispute) and has testified at deposition three times. A complete testimony list is available upon request. Mr. Conlin has worked on more than forty additional cases, in state and federal courts, as the lead associate to the retained expert, including intellectual property disputes between major consumer brands. Mr. Conlin has attended SEAK expert witness training and has experience in the following areas:

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|-------------------|-----------------------------|
| Product Liability | Machine Guarding |
| Risk Assessment | Conveyor Safety |
| Failure Analysis | Ski Lift Design & Operation |
| Physical Testing | Sports Equipment |

Mr. Conlin has also been involved in multiple aspects of patent litigation including drafting claim charts, researching sources for claim construction, dissecting multiple combinations of prior art and DOE analyses. Mr. Conlin has worked on district court cases, IPRs and EPRs. The following are a few of the categories of patent issues Mr. Conlin has consulted on:

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|------------------------------------|-------------------------------|
| Patent Non-infringement/Invalidity | Heavy Equipment |
| Patent Infringement/Validity | Aerosolizing Cleaning Systems |
| Prior Art Searching | Office Chairs |
| Claim Construction | Adjustable Child Carriers |

CONSULTING FOCUS

Major areas of focus and expertise include: inclined elevators, electric vehicle chassis design, passenger ropeways, aerial ropeways, ski lift operation, terrain park design, sports equipment, ski equipment, lacrosse equipment, autonomous agricultural equipment, commercial mowers, turf harvesting equipment, amusement rides, trailers, end dumps, oil and gas equipment, heavy equipment, forklifts, construction equipment, conveyors, hydraulic equipment, manufacturing equipment, consumer products, designing to standards, and design for safety.