



CURRICULUM VITAE  
**BRANDON CONLIN**

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**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 a NCAA Division 1 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, and certified forklift operator.

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

**WORK HISTORY**

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

**EDUCATION**

<b>Bachelor of Science - Mechanical Engineering</b>	2007-2010
Syracuse University	
Minor: Mathematics	
Athletic Scholarship: Lacrosse	

## CERTIFICATIONS

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

## PATENTS

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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 listed as an inventor on two patents before the examiner.

- US18/462947 - Bicycle Rack with Articulating Wheel Support
- US63/600393 - Apparatus, Methods and Systems for Tubular Inspection

## EXPERT WITNESS

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Mr. Conlin has been retained as an expert on five personal injury cases and has testified in a number of these. Mr. Conlin has worked on many more personal injury cases as the lead associate to the retained expert. Mr. Conlin has attended SEAK expert witness training and has experience in the following areas:

Product Liability	Machine Guarding
Personal Injury	Conveyor Safety
Failure Reconstruction	Ski Lift Design & Operation
Safety	Sports Equipment

Mr. Conlin has also been involved in multiple aspects of patent litigation including claim construction, prior art and patent searches, infringement/validity analyses and non-infringement/invalidity analyses. Mr. Conlin has worked on district court cases and IPRs. The following are a few of the categories of patent issues Mr. Conlin has consulted on:

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

## CONSULTING FOCUS

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Major areas of focus and expertise include: inclined elevators, electric vehicle chassis design, passenger ropeways, aerial ropeways, ski lift operation, skier collisions, 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, belt conveyors, hydraulic equipment, manufacturing equipment, consumer products, designing to standards, and design for safety.