

# Brandon K. Conlin

BSME, PE

Senior Consultant



Mr. Brandon Conlin is a senior consultant for Engineering Systems Inc. (ESi) in the Ann Arbor, Michigan office. He holds a degree in Mechanical Engineering with a minor in Mathematics. He has worked on the development of multiple successful products including automated hillside elevators, passenger ropeways (ski lifts), amusement rides, automated and autonomous agricultural equipment, commercial lawn mowers, trailers, oil and gas equipment, and consumer products. He is a named inventor on two patents and has provided support during both patent prosecution and patent litigation matters, including validity & invalidity analyses, infringement & non-infringement analyses, drafting claim charts, and supporting claim construction.

Mr. Conlin is steeped in the principles of design for safety of automated and autonomous equipment. He is skilled in ropeway design, maintenance, and operation. He has significant practice in electric vehicle (EV) chassis layout, design, and optimization across multiple products. He has over a decade of experience in product development, equipment safety and risk assessments, and designing of equipment to OSHA regulations and industry safety standards. Additionally, he has 3+ years of hands-on experience as a mechanic.

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## Education

BS, Mechanical Engineering. Syracuse University. 2013

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## Licenses & Certifications

- State of Utah P.E. License 13128013-2202
- Utah Department of Transportation (UDOT) Qualified Engineer and Ropeway Inspector
- Certified Counterbalance Forklift Operator
- Certified Mobile Crane Inspector
- Certified Rigging Equipment Inspector

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## Languages

- German (conversational)

## Contact Information

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(734) 274-8339

## ESi Ann Arbor

1174 Oak Valley Drive

Ann Arbor, MI 48108

## Areas of Specialization

- Product Liability
- Risk Assessment
- Failure Analysis
- Physical Testing
- Machine Guarding
- OSHA Compliance
- Working at Heights / Fall Protection
- Lockout / Tagout
- Industrial Automation
- Conveyor Safety
- Heavy Equipment
- Agricultural Equipment
- Ski Lift Design & Operation
- Amusement Ride Restraints
- Sports Equipment
- Intellectual Property

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## Positions Held

### **Engineering Systems Inc., Ann Arbor, Michigan**

- Senior Consultant, 2026-Present

### **Alpine Engineering & Design, Alpine, Utah**

- Senior Engineer, 2022-2026

### **Firefly Automatix, Salt Lake City, Utah**

- R&D Engineer, 2021-2022
- Production Engineer, 2021

### **Skytrac Inc., Salt Lake City, Utah**

- Mechanical Engineer, 2014-2021

### **Big Sky Resort, Big Sky, Montana**

- Lift Mechanic, 2011-2013
- Ski Rental Technician, 2007-2008

### **Boyne Mountain, Boyne Falls, Michigan**

- Ski Rental Technician, 2007-2008

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## Continuing Education

- **10-Hour General Industry Safety and Health** – Occupational Health and Safety Administration (OSHA), 2024
- **Scissor Lift and Boom Lift Safety** – Certificate of Completion, WCF Insurance, 2024
- **Catastrophic Winds** – Certificate of Completion, Titan Education, 2025
- **Self-Driving Cars: What Can We Realistically Expect?** - Certificate of Completion, Titan Education, 2025

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## Professional Affiliations/Honors

### **Utah Department of Transportation**

- Committee Member, Passenger Ropeway Safety

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## Project Experience

### Personal Injury Investigations

#### Chairlift Deropement Analysis – High Winds

- Performed inspection of the incident chairlift, tower, chairs, and captured data in the form of photographs, videos, and measurements.
- Performed spatial analysis of equipment damage to determine sequence of failure events.
- Interviewed operations and maintenance personnel, as well as reviewed operator records and training documentation to determine operational safety culture.
- Analyzed applicable standards to determine adequacy of incident equipment.
- Performed patent search to show that manufacturer had been aware of mechanism of failure for several decades.

#### Conveyor Guarding Analysis – Redundant Guarding

- Performed inspection of incident equipment, captured data in the form of photographs, videos, measurements.
- Reviewed manufacturer engineering drawings to determine that, while the conveyor perimeter guarding as originally designed and constructed met all applicable standards, it had been modified into a deficient condition by operations staff.
- Analyzed placement of area perimeter guarding with respect to incident powered roller to determine that area guarding as originally designed and constructed prevented whole-body access and therefore did not require a second redundant guard.
- Prepared technical reports, static visual aids, and expert opinions summarizing findings, methodologies, and conclusions in a manner suitable for litigation support, including deposition and trial presentation.

### Intellectual Property

#### Non-infringement / Invalidity Analysis

- Supported client in defending patent.
- Analyzed family of patents in which several continuations were utilized to read on accused product.
- Identified key claim language, including matter not supported by the written description.
- Provided support regarding claim construction.
- Developed arguments showing substantial differences under reverse doctrine of equivalents.
- Prepared claim charts, static visual aids, and expert opinions summarizing findings in a manner suitable for litigation support, including deposition and trial presentation.