

Sean R. Caldwell

Ponderosa Associates, Ltd.
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Education

Front Range Community College – Westminster, CO 2007 - 2009

Orange County Community College – Middleton, NY 2009 - 2010

University of Colorado Denver – Denver, CO 2010 – 2012

B.S. Mechanical Engineering, Cum Laude

University of Colorado Denver – Denver, CO 2013 – 2016

27 Credits of graduate coursework

Certifications Accreditations

Professional Engineer, State of California #37840, State of Wyoming #16332,
State of Colorado #0056566

DOT FAA Remote Pilot Certificate #4307490

Crash Data Retrieval (CDR) Certified Download Technician, March 2014

Crash Data Retrieval (CDR) Certified Data Analyst, April 2014

Professional Experience

Principal Engineer, Ponderosa Associates, Ltd. 2013 – Present

- Performed investigation, reconstruction and analysis of accidents involving automobiles, tractor-trailers, motorcycles, pedestrians, skiers, and mechanical systems.
- Performed scene and vehicle inspections, surveys and three-dimensional scans to collect and quantify physical evidence.
- Performed analysis of accidents utilizing HVE-EDCRASH and EDSMAC, AutoCAD and Microsoft Excel.
- Performed photogrammetry to reconstruct destroyed evidence utilizing Photomodeler.
- Prepared technical reports and exhibits for litigation utilizing Geomagic, 3DS MAX, AutoCAD and Microsoft Office products.
- Performed vehicle instrumentation and testing as well as signal processing and data analysis.

Infantry Team Leader, Sergeant, United States Army, 2001 – 2005

- Two tours in Iraq with the 82nd Airborne Infantry; 2003 – 2004, 2004 – 2005
- Army Commendation Medal with ‘V’ Device for valor during battle.
- Expert Infantry Badge and Airborne certified.

Presentations

- Colorado Space Business Round Table, 2011
- Tau Beta Pi Mountain Region Conference, 2012
- The Next Objective Yearly Fundraiser, 2017
- University of Colorado Denver English Composition for the Engineering Student, 2019

**Additional
Professional
Activities**

- Accident Reconstruction, the Autonomous Vehicle and ADAS 8hr Course by SAE, March 2020
- Reconstruction and Analysis of Motorcycle Crashes 8 hr Course by SAE, October 2019
- Reconstruction and Analysis of Rollover Crashes of Light Vehicles 8 hr Course by SAE, October 2019
- Applied Vehicle Dynamics 24 hr Course by SAE, May 2019
- Colorado Defense Lawyers Association – Trial Academy, February 2019
- Applying Automotive EDR Data to Traffic Crash Reconstruction 20 hr Course by SAE, June 2018
- Colorado Defense Lawyers Association – Trial Academy, April 2018
- Colorado Defense Lawyers Association – Trial Academy, April 2017
- HVE 35 hr Forum by Engineering Dynamics Corporation, March, 2017
- Colorado Defense Lawyers Association – Trial Academy, April 2016
- EDC Simulations 36 hr Course by Engineering Dynamics Corporation, January, 2015
- Beta Tester, HVE Software by Engineering Dynamics Corporation, 2013-2015
- Crash Data Retrieval Data Analyst 40 hr Course by Collision Safety Institute, April 2014
- Bosch 8 hr Crash Data Retrieval Technician Course, March, 2014

**Professional
Affiliations**

- Tau Beta Pi, Engineering Honor Society
- Society of American Military Engineers (SAME)
- Society of Automotive Engineers (SAE)
- American Society of Mechanical Engineers (ASME)