



Colin M. Wein, P.E.

Compass Consulting Engineers P.C.
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EDUCATION

Colorado School of Mines – Golden, Colorado

- B.S. Mechanical Engineering, 2013 – 2014
- B.S. Mathematical and Computer Sciences, 2001 – 2005

ACCREDITATIONS

- Licensed Professional Engineer (PE), Colorado #56822
- Licensed Professional Engineer (PE), California #M 385765
- ACTAR Accredited Traffic Accident Reconstructionist #3482
- Licensed Commercial Drone Remote Pilot – March 2019
- Crash Data Retrieval (CDR) Certified Data Analyst – October 2016
- Crash Data Retrieval (CDR) Certified Download Technician – July 2014
- Engineer in Training (EIT), Colorado – 2014

PROFESSIONAL EXPERIENCE

Compass Consulting Engineers P.C. – Westminster, Colorado Engineer, 2017 – Present

- Perform investigation, reconstruction and analysis of motor vehicle accidents, including automobiles, SUV rollovers, heavy vehicles, bicycles, motorcycles and pedestrian impacts
 - Perform scene and vehicle inspections to collect three-dimensional geometry and physical evidence using surveys, three-dimensional scans and drone footage
 - Create three-dimensional point clouds of damaged vehicles and crash sites using FARO Scene, ReCap and Pix4D
 - Utilize PhotoModeler software to perform photogrammetry to reconstruct destroyed physical evidence and damaged vehicle geometry
 - Simulate motor vehicle accidents using HVE software and simulation models such as EDCRASH, EDSMAC, SIMON
 - Create precise two- and three-dimensional drawings using the computer-aided design software AutoCAD
 - Mathematical analysis of motor vehicle accidents using Microsoft Excel and Mathcad
 - Model and reconstruct rollover accidents using 3D Studio Max animation software to match vehicle damage to roadway evidence in virtual space
 - Prepare technical reports and exhibits for litigation

Ponderosa Associates Ltd. – Lafayette, Colorado Project Engineer, 2014 – 2017

- Performed investigation, reconstruction and analysis of motor vehicle accidents, including automobiles, SUV rollovers, heavy vehicles, bicycles and motorcycles and pedestrian impacts
- Designed testing and operated vehicles for full-scale dynamic testing related to ignition switch failure. Performed full-scale testing on vehicles to determine the effect on braking and steering after an unintended key off movement of the ignition switch

Knott Laboratory, LLC – Centennial, Colorado

Mechanical Engineering Intern, 2013 – 2014

- Performed reconstruction and analysis of motor vehicle accidents including rollovers and low speed collisions
- Worked alongside lead engineers at all phases of the reconstruction including project scope, analysis, calculations and report drafting
- Performed simulation of rollover accident using PC-Crash
- Worked alongside lead engineers on product liability cases involving product testing and report drafting

ADDITIONAL PROFESSIONAL ACTIVITIES

- HVE Forum by Engineering Dynamics Corporation, 2019 – Las Vegas, NV
- Full scale vehicle testing of a Chevrolet Impala, 2018 – High Plains Race Track, CO
- Full scale vehicle testing of a Chevrolet HHR, 2017 – High Plains Race Track, CO
- HVE Forum by Engineering Dynamics Corporation, 2017 – New Orleans, LA
- Volunteer Expert: Colorado Defense Lawyers Association, Trial Academy, 2014, 2016 & 2018 – Denver, CO
- HVE Simulations Training Course by Engineering Dynamics Corporation, 2015 – Burbank, CA
- 40 hr. Bosch Crash Data Retrieval (CDR) Data Analyst Course, 2016 – Evanston, IL
- 16 hr. Bosch Crash Data Retrieval (CDR) Technician Course, 2014 – Westminster, CO

PROFESSIONAL AFFILIATIONS

- Society of Automotive Engineers (SAE)
- National Society of Professional Engineers (NSPE)
- National Association of Professional Accident Reconstruction Specialists, Inc. (NAPARS)