


## ALEXANDER D. SZEPELAK, BSME

Forensic Expert – Accident Reconstruction

**OFFICE:** 702.395.6768
**EMAIL:** alex.szepelak@aperturellc.com


## EDUCATION

| | |
|---|---|
| BSME | Bachelor of Science in Mechanical Engineering<br>University of Nevada, Las Vegas, 2017 |

## PROFESSIONAL CERTIFICATIONS

| | |
|---|---|
| Remote Pilot | Federal Aviation Administration Part 107 Certified UAS<br>(December 2017), Certification # 4076499 |

Certified by Kent Boots & Associates as a Crash Data Retrieval (CDR) Tool Operator

Nevada Board of Professional Engineers & Land Surveyors (EI #0T7781)

## MEMBERSHIPS

Tau Beta Pi Engineering Honor Society

Society of Automotive Engineers (SAE)

Southwestern Association of Technical Accident investigators (SATAI)

## WORK EXPERIENCE

***Aperture, LLC, 2021/Present***
6351 Hinson St., Ste. R
Las Vegas, NV 89118

***American Bio Engineers, LLC, 2017/2021***

| | | |
|---|---|---|
| 6351 Hinson St., Ste. R<br>Las Vegas, NV 89118 | 2305 Historic Decatur Rd., Ste. 100<br>San Diego, CA 92106 | 7272 E Indian School Rd., Ste. 540<br>Scottsdale, AZ 85251 |

Accident Reconstruction with areas of expertise in Vehicular Accidents, Vehicular Dynamics, Speed Analysis, and Time/Motion Studies.

***NV Energy, 2016/2017***
6226 West Sahara Ave.
Las Vegas, Nevada 89146

Assisted project engineer in organizing capacitor bank modernization project data
Gathered circuit information pertaining to the annual state of the system report

***Marquis Aurbach and Coffing 2014/2016***
10001 Park Run Drive
Las Vegas, Nevada 89145

Communicated with secretaries on details of scanning and filing projects
Assisted lead runner with organizational tasks throughout the office

## PROJECTS

Collaborated with other students to design a manual transmission for a car, including material and bearing selection, shaft diameter and gear dimensions

Development of an antimicrobial gel that was used on a medical mask to provide an additional layer of protection to the user

## SPECIALIZED TRAINING/SEMINARS ATTENDED

**SATAI Conference** presented by *Southwest Association of Technical Accident Investigators (SATAI)* (Glendale, AZ, 2020)

- Electric Scooters
- E-Scooter vs. Car Crash Test
- CDR System Operators / Analysis & Applications Course Series – The CDR 900 Interface and Toyota TechStream / PCS & VCH Data
- iNPUT-ACE Traffic Seminar

**2020 IDRR User Forum and Training** presented by *Crash Safety Solution* (Las Vegas, NV, 2020)

**Human Factors for Traffic Crash Reconstruction** presented by *Crash Safety Solution* (virtual course, 2021)

**Safety Systems, Rollovers & Blowouts** *HVE* Forum presented by *Terry Day* (virtual conference, 2021)

**Advanced HVE: Parts I & II *HVE* Forum** presented by *Anthony D. Cornetto, P.E., President* (virtual conference 2021)

**Bosch Crash Data Retrieval Tool Operator/Technician Course** *instructed by Kent E. Boots and Associates (Anaheim, CA 2022)*

## RESEARCH

| | |
|---|---|
| Mar 2018 | Performed and participated in instrumented oblique lateral minor impacts involving human female subjects and instrumented Hybrid III ATDs at angles of 45º, 60º, and 90º using 2005 to 2007 Toyota Camrys and Corollas in Las Vegas, NV. |
| Jun 2018 | Performed and participated in instrumented car-to-car rear-end impacts with human subject using 2005 to 2007 Toyota Camrys and Corollas in Las Vegas, NV. |
| Jan 2020 | Performed and participated in rear-end impacts between a 2012 Hyundai Genesis Coupe and a 1999 BMW 528i with instrumented volunteers in Glendale, AZ. |
| Sep 2020 | Performed and participated in instrumented rear-end impacts between a Corolla and Camry with human volunteers in Las Vegas, NV. |
| Oct 2020 | Performed and participated in instrumented lateral minor impacts between and Corolla and Camry with human volunteers in Las Vegas, NV. |