



formerly american bio engineers

Alexander D. Szepelak, BSME
Accident Reconstruction Specialist and Forensic Expert

EDUCATION

- Bachelor of Science in Mechanical Engineering
University of Nevada Las Vegas, 2017

LICENSES

- Engineer Intern-State of Nevada, Mechanical
- FAA Part 107 Certified UAS Remote Pilot (December 2017)
Certification # 4076499

EXPERIENCE

American Bio Engineers, LLC, 2017/Present
6351 Hinson St., Ste. R
Las Vegas, NV 89118

- Accident Reconstruction with areas of expertise in Vehicular Accidents, Vehicular Dynamics, Speed Analysis, Time/Motion Studies, Vehicle Maintenance, and Design Strength Analysis.

Types of cases reconstructed include: Auto v. Auto Collisions, Auto v. Heavy Truck/Trailer Collisions, Auto v. Truck Collisions, Auto v. Motorcycle Collisions, Auto v. Pedestrian Collisions, and Vehicle Rollovers.

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

LAS VEGAS
702.395.6768

SAN DIEGO
619.269.2089

SCOTTSDALE
480.207.5163

aperturellc.com

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

MEMBERSHIPS

- Tau Beta Pi Engineering Honor Society
- Nevada State Board of Professional Engineers and Land Surveyors (Intern)

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
 - iINPUT-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)

RESEARCH

- Mar 2018 Performed and participated in instrumented oblique lateral minor impacts involving human female subjects and instrumented Hybrid III ATDs at angles of 45°, 60°, and 90° 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.