



7355 Remcon Circle  
Suite 103  
El Paso, TX 79912  
(915)-533-4041  
Fax: (915) 533-6653

## RESUME'

### ABRAHAM CHAIREZ, M.S.I.E., ACTAR

#### **EDUCATION**

Masters of Science, Industrial Engineering, New Mexico State University, May 2018.

Bachelor of Science, Civil Engineering Technology, New Mexico State University with Honors, December 2012. Curriculum Included: Statics, Dynamics, Physics, Calculus, Thermodynamics, Fluid Mechanics, Structural Analysis, Materials Testing, Mechanics of Materials, Drafting, Surveying Field Work, Surveying Computations, Engineering Fundamentals and Problem Solving, Economics, Steel Structures Design, Concrete Structures Design, Hydraulic Structures and Engineering Systems, Soil Mechanics, Foundation Design, and Construction Engineering.

Associates Degree in Civil/Surveying Technology, Dona Ana Community College with Honors, 2009.

#### **ACTAR ACCREDITATION**

ACTAR Accredited Reconstructionist, Registration #2768. Awarded full accreditation as a Traffic Accident Reconstructionist by the Accreditation Commission for Traffic Accident Reconstruction in recognition of academic achievement, accident specific training, applied experience in the field, and successful completion of the ACTAR full accreditation written and practical examination, January, 2014.

#### **EXPERIENCE**

**TNM Engineering, LLC**, Accident Reconstruction Specialist, 12/12 – Present. Provide investigation, analysis, and reconstruction services for traffic accidents, equipment and component failures.

**City of Deming**, Intern for Public Works Department/Engineering Department, 06/12-8/12. Conduct research and prepare the City's water audit for the New Mexico State Engineers office, prepared takeoff lists for various construction projects, help city's engineer in surveying projects and collect topographic data.

**Baker Concrete Construction Inc.**, Project Manager's Assistant/Corrective Actions Coordinator, 05/11-12/11. Help supervise prime contractor and sub-contractor field operations, prepare necessary documentation for design engineers and project managers (RFI's & ECR's), review construction blueprints in order to relate correct information to the field, prepared punch lists for building turnover, complete evaluations on Condition Reports to ensure that quality was maintained, helped with various Quality Control situations.

**A&S Auto Repair**, Mechanic/Technician, 08/03-01/06. Diagnosed and repaired mechanical and electrical vehicle problems, prepared invoices for customers, clean and maintain shop and tools.

**SPECIALIZED TRAINING / CONTINUING EDUCATION**

"Traffic Crash Reconstruction I", Northwestern University Center for Public Safety, October, 2013, 80 hours. Curriculum included vehicle dynamics and Newton's laws, basic statics, heavy truck accident reconstruction, conservation of momentum, energy, crush analysis and speed estimates from damage, marks on the road, driver strategy and tactics, derivation of equations, case presentation, testimony, report writing, exhibits. Case studies included cars, trucks, trains, and pedestrians.

CDR Technician Certified. Bosch Crash Data Retrieval Technician online Course by Institute of Police Technology and Management, August 16, 2013. Included updated training for securing data from airbag control modules, rollover sensor modules, and powertrain control modules.

"Crash Data Retrieval Summit", Houston Texas, January, 2014, 20 hours. Curriculum included EDR data from CDR supported European Vehicles, Hyundai and Kia Data Overview, integrating CDR into an analysis, Toyota brake data, Analysis of EDR Delta-V reporting in the small overlap crash test, Assessing and accessing the OBDII port.

"Faro Laser Scanner training program" El Paso, Texas, February, 2013. Included training for Faro Laser Scanner in the use of Accident Reconstruction and Data collection, use of Scene software to evaluate accident scene and vehicles, measurements and point cloud data acquisition.

"Accessing and Interpreting Heavy Vehicle Event Data Recorders", SAE International, May, 2015. Curriculum included how to use various methodologies for accessing and imaging data from HVEDRs while preserving the data in its original electronic format within the control module. Compile documentation of the vehicle and the imaged HVEDR data to properly establish foundational facts that tie the data to the vehicle and to ensure the reliability of incident specific data. Properly interpret data from HVEDRs and understand the limitations of this data. Analyze HVEDR data in the context of collision reconstruction

"CDR Analysis and Applications Course", Crash Data specialists, LLC, El Paso, TX, October 2015. Included training to understand the function of the Event Data Recorder information present in some electronic control modules on most late model production passenger vehicles as supported by the latest version of the CDR Software.

"Commercial Vehicle Crash Investigation" Course by Institute of Police Technology and Management, August, 2017. Course included detailed information of the nomenclature and operation of commercial motor vehicles. Provide understanding of mechanical components, parts and pieces of the commercial motor vehicle and how they may factor into an investigation.

"Techniques of Crash Investigation" Course by Institute of Police Technology and Management, April 2019.

"Investigation of Pedestrian Collisions" Course by Institute of Police Technology and Management, April 2019.

"UAVs in Crash Reconstruction" Course by Institute of Police Technology and Management, April 2019.

"Motorcycles: Myths, Methodologies & Momentum" Course by Institute of Police Technology and Management, April 2019.

**LECTURER**

“Evidence Preservation and Identification”, for Progressive Insurance Company adjusters, December, 2015. Presented methods to properly preserve evidence by photography and how to accurately identify important crash related evidence.