

ERIK BROWN

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EXPERTISE

- Dram shop Toxicology
- DUI testimony (FSTs, Signs & Symptoms, Retrogrades)
- Blood alcohol determination
- Intoxilyzer 5000 & 8000 Operator and QAS
- Preliminary Breath Testers
- Firearms examination, comparison and lecturing for attorneys and police
- Gun Shot Residue Analysis by Scanning Electron Microscopy
- Drugfire and IBIS NIBIN Data Systems
- Shooting distance determination
- Shooting scene reconstruction
- Controlled substances identification
- Forensics LIMS administration

EDUCATION

Bachelor of Science, Environmental Toxicology, University of California at Davis,
Davis, CA, March 1995

Associate of Science, Math and Physics, Hartnell Community College,
Salinas, CA, June 1992

PROFESSIONAL EXPERIENCE

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|---|-----------------------|
| Instructor , Arizona State University School of Interdisciplinary Forensics | Aug. 2025 - Present |
| <ul style="list-style-type: none">• Forensics | |
| Instructor , Brightmont Academy | Oct. 2022 - Present |
| <ul style="list-style-type: none">• Math• Science• Forensics | |
| Criminalist , Independent | Mar. 2007 - Present |
| <ul style="list-style-type: none">• Firearm examiner• Forensic toxicology | |
| Criminalist , City of Chandler Police Department, Chandler, AZ
Forensic Science Section | Aug. 2005 – Mar. 2007 |
| <ul style="list-style-type: none">• Forensic alcohol• Firearm examiner• Controlled substances chemist | |
| Criminalist , City of Phoenix Police Dept., Phoenix, AZ
Laboratory Services Bureau | Dec. 1998 – Aug. 2005 |
| <ul style="list-style-type: none">• Firearm examiner• Arson examiner• Controlled substances chemist | |
| Chemist , Del Mar Analytical, Phoenix, AZ | May 1998 – Dec. 1998 |
| <ul style="list-style-type: none">• Analyzed environmental air, soil and water samples for EPA regulated pollutants. | |

Chemist, McKenzie Laboratory, Phoenix, AZ Mar. 1997 – May 1998

- Analyzed environmental soil and water samples for EPA regulated pollutants.
- Group leader for all Environmental GC/MS analysis.
- Assisted in the development and testing of a new testing method for petroleum hydrocarbons for the State of Arizona.

Chemist, TJ/H2B, Inc., Rancho Cordova, CA Jul 1996 – Mar 1997

- Analyzed air, oil and soil samples for the power industry for compliance with EPA and industrial regulatory requirements.
- Established a national quality control system for all corporate labs.

Chemist, California Laboratory Services, Rancho Cordova, CA Jul 1995 – Jul 1996

- Analyzed water, soil, and oil samples for EPA and Cal-EPA regulatory requirements.
- Section supervisor of the inorganics/wetchem sections.

Chemist, Roy F. Weston, Inc., Stockton, CA May 1995 – Jul 1995

- Analyzed soil, oil, air, and water samples for EPA & Cal-EPA regulatory requirements.
- Analyzed explosive residues in soils for the State of Alabama's remediation efforts.

Undergraduate Research Asst., University of California at Davis Jan. 1995 – May 1995

- Worked in Environmental Toxicology Department's "IR4" lab analyzing PCB residues in water for use in criminal and civil litigation.

Firearms Sales & Service, JKD Shooting Sports, Salinas, CA 1987 – 1990

- Gunsmithing: full breakdown cleaning, replacing broken parts, cutting and re-crowning of barrels, and bore sighting of rifles for scopes.
- Explain firearms to customers in order help them better understand firearms so they would be more informed purchasers.
- Performed function testing of newly purchased firearms.

CERTIFICATIONS

- NHTSA/IACP Standardized Field Sobriety Testing Practitioner, March 2007
- AFTE Certified Firearms Examiner, January 2007
- Intoxilyzer 5000 Quality Assurance Specialist Permit, March 2006
- Intoxilyzer 8000 Quality Assurance Specialist Permit, September 2005
- Laboratory Analyst's Permit # 295, September 2005
- Intoxilyzer 5000 & 8000 Operator's Permit, August 2005
- Diplomate American Board of Criminalistics, October 2002

TRAINING SEMINARS

- The Borkenstein Drug Course - CFSRE Virtual September 2022
- Reliable Quantification of THC in Chocolate and Identifying Fentanyl Analogs and Illicit Drugs using MassHunter - CFSRE Virtual April 2021
- Forensic Shooting Scene Reconstruction Course, Gunsite Academy, Paulden Arizona by Forensic Science Consultants. Michael and Lucien Haag - Instructors. October 29 - November 2, 2007.
- NHTSA SFST 2006 Course, Tucson, AZ 2007
- AFTE 2006 Training Seminar, Springfield, MA, 2006
- The Robert F. Borkenstein Course on Alcohol and Highway Safety: Testing, Research and Litigation, Dubowski, A. W. Jones, et al., Bloomington, IN, 2005
- Covert and Surreptitious Building Entries: Lock Picking and Subtle Mechanical Breaching Skills, Carey & Associates International, Phoenix, AZ, 2005
- IBIS/NIBIN Operators School, FTI Inc. Largo, FL, 2002
- Arson and Explosives Seminar, John Dehaan in Seaside, CA, 2002
- Southwestern Association of Forensic Scientists, San Antonio, TX, 2001
- Serial Number Restoration Techniques, B.A.T.F, Phoenix, AZ, 2000

ARMORER'S SCHOOLS

- Glock Armorers' School, Glock Inc., Phoenix, AZ, 2005
- Taser Training, Rich Wooten, Phoenix, AZ, 2004
- Colt Armorer's Model "O" Armorer's School, Ken Elmore in Mesa, AZ, 2003
- Beretta's Armorer's School, By Beretta, Phoenix, AZ, 2003
- Smith & Wesson Revolver Armorer's Academy, Smith & Wesson Inc., Phoenix, AZ, 2002
- Colt M16/AR15 Law Enforcement Armorer's School, Ken Elmore, Phoenix, AZ, 2001
- Glock Armorer's School, By Glock Inc. in Peoria, AZ, 2000

PROFESSIONAL SOCIETY MEMBERSHIPS

- Association of Firearms and Toolmark Examiners (AFTE), Regular Member
- Southwestern Association of Forensic Scientists (SWAFS), Past Member
- Past Diplomat American Board of Criminalistics (D-ABC)

PUBLICATIONS

- "Serial Number Restoration on Ruger P Series Aluminum Alloy Frames," AFTE Journal, Volume 33 Number 1, Winter 2001.
- "Distance Determine Angle and Performance of the Taser International Model X26," AFTE Journal Volume 37 Number 3, Summer 2005.

LECTURES & INSTRUCTION GIVEN

- "Fundamentals of Blood Alcohol Testing or... Blood Testing 101" teleconference presentation for State Bar Association, September 18, 2020.
- "How to Use and When Not to Use an Expert" presentation AACJ Seminar in Tucson, May 4, 2018.
- "Trial Issues" presentation at AACJ Seminar in Tucson, May 6, 2017.
- "Statewide Blood Update" presentation at AACJ Seminar in Tucson, May 2, 2015.
- "Gun Shot Residue/Distance Determination" presentation at 8th Annual Public Defender Association seminar in Tempe Arizona.
- "Forensic Science Overview" at Chandler-Gilbert Community College September 28, 2009 in Gilbert Arizona.
- "Discovery for Blood Alcohol Analysis" at Arizona State University Sandra Day O'Connor College of Law September 25, 2009 in Tempe Arizona.
- "Blood Alcohol Analysis" presentation for Maricopa County Public Defenders August 25-26, 2009 in Phoenix Arizona.
- "Gun Shot Residue/Distance Determination" presentation for Maricopa County Public Defenders August 18, 2009 in Phoenix Arizona.
- "Scientific Aspects of DUI Cases" July 9, 2009 in Phoenix Arizona.
- "Forensic Firearms and GSR Analysis" June 18, 2009 at 7th Annual Public Defender Association seminar in Tempe Arizona.
- "Blood Alcohol Analysis" May 9, 2009 at the Arizona Association for Criminal Justice seminar in Tucson Arizona.
- "Forensic Firearms Analysis" February 16, 2009 at Arizona State University's Sandra Day O'Connor College of Law in Tempe Arizona.
- "Forensic Firearms Analysis" June 17, 2008 6th Annual Arizona Public Defender Association seminar in Tempe Arizona.
- "Introduction to DUI Blood Cases" June 16, 2008 6th Annual Arizona Public Defender Association seminar in Tempe Arizona.
- "An Inside Look at Blood Testing from the Analyst's Perspective" Arizona State University Sandra Day O'Connor College of Law Alumni Association's DUI XXII, September 2007.
- Forensic LIMS Installation and Training, Kentucky State Police, June 2007.
- Faculty at 5th Annual Arizona Public Defender Association seminar in Tempe Arizona. Co-lecturer on "Understanding Blood Alcohol Analysis", June 2007.
- Forensic LIMS Installation and Training, Florida Department of Law Enforcement, 2007 and 2008.
- Firearms Safety and Evidence Collections Class for Crime Scene Response, City of Chandler Police Department, Jan. 12, 2006.
- Forensics Aspects of Firearms Evidence for Chandler Detectives, City of Chandler Police Department, June 21, 2006.
- Bullet Impact Testing for Police and Crime Scene Response, City of Chandler Police Department, 2006.
- Forensic LIMS Installation and Training, Nebraska State Police, 2006.
- Forensic LIMS Installation and Training, Alabama Dept. of Forensic Sciences, 2004.
- Forensic LIMS Installation and Training, New Mexico State Police, 2003.
- Drug Recognition Training for Post-Academy Police Officers, City of Phoenix Police Department, 1999 – 2000.

TESTIMONY

Qualified as an expert witness in the following courts:

- Superior Courts of Maricopa County, AZ (Criminal & Civil)
- United States Federal District Court - Phoenix AZ
- Town of Gilbert Municipal Court, Gilbert, AZ
- City of Mesa Municipal Court, Mesa, AZ
- City of Chandler Municipal Court, Chandler, AZ
- City of Scottsdale Municipal Court, Scottsdale, AZ
- City of Phoenix Municipal Court, Phoenix, AZ
- City of Tempe Municipal Court, Tempe, AZ
- City of Tucson Municipal Court, Tucson, AZ
- Maricopa Justice Courts, Maricopa County, AZ
- Graham Justice Courts, Safford, AZ
- Apache Junction Municipal Court, Apache Junction, AZ
- Pima County Superior Court, Tucson, AZ
- Pima County Justice Court, Tucson, AZ
- Pinal County Superior Court, Florence, AZ
- Surprise Municipal Court, Surprise, AZ
- Wickenburg Municipal Court, Wickenburg, AZ
- City of Peoria Municipal Court, Peoria, AZ
- Luke Air Force Base, AZ
- Pinal County Justice Court, Eloy AZ
- Sheppard Air Force Base, TX
- Coconino County Superior Court, AZ
- Gila County Justice Court, Payson AZ
- Marana Municipal Court, Marana AZ
- United States Federal District Court - Tucson AZ
- Mohave Superior Court, Kingman AZ
- Oro Valley Magistrate Court, Oro Valley AZ
- Prescott Valley Magistrate, Prescott Valley AZ
- Goodyear Municipal Court, Goodyear AZ
- Yavapai County Justice Court, Prescott and Cottonwood AZ
- Sedona Municipal Court, Sedona AZ
- New Mexico District Court, - Las Cruces NM
- Mohave Superior Court, Bullhead City AZ
- Los Angeles Superior Court, Norwalk CA
- Lake Havasu Municipal Court, Lake Havasu City AZ
- Glendale Municipal Court, Glendale AZ
- Avondale Municipal Court, Avondale AZ
- Yuma County Justice Court, Yuma AZ
- Arizona State University, Tempe AZ
- Casa Grande Municipal Court, Casa Grande AZ
- Tusayan Justice Court, Grand Canyon AZ