

## **PROFESSIONAL EXPERIENCE**

Chris Coleman has a BS in Forensic Science and over 25 years of experience in forensic science with city and county law enforcement agencies, including fifteen years with the Contra Costa County Sheriff's Crime Laboratory (nine as supervisor). He has been court qualified in firearms and toolmark examination, shooting incident reconstruction, crime scene processing, blood spatter interpretation, controlled substance analysis and latent print processing. He holds expertise in firearms examination, shooting reconstruction, crime scene processing and blood spatter analysis. He is a fellow of the American Board of Criminalistics and has held certifications in firearms, toolmark, distance determination and gunshot residue by the Association of Firearms and Toolmark Examiners (AFTE). He has published and extensively taught various firearms-related subjects to law enforcement, medical and legal groups, including a recurring shooting incident reconstruction class with the California Criminalistics Institute (CCI). He is a California POST certified Firearms and Force Options instructor and range master. He is also a recent past president of the California Association of Criminalists (CAC).

## **EDUCATION**

- Aug 1988 – May 1991: Casper College, Casper, WY  
Chemistry/Criminal Justice
- Sept 1991 – Dec 1993: California State University, Sacramento  
BS, Forensic Science
- Sept 1995 – May 1996: California State University, Los Angeles  
Criminalistics

## **EMPLOYMENT**

- Senior Forensic Scientist, Forensic Analytical Sciences, October 2017 - Present
- Contract Firearms Examiner, Ron Smith & Associates, June 2016 – September 2017
- Deputy Sheriff Forensic Supervisor (Sgt), Contra Costa County Sheriff, Feb. 2007 – June 2016
- Deputy Sheriff Criminalist III, Contra Costa County Sheriff, November 2001 – February 2007
- Criminalist II/III, Santa Clara County District Attorney's Office, August 1996 – October 2001
- Criminalist I, Los Angeles Police Department, May 1995 – August 1996
- Teaching Assistant (Forensics), California State University (Sacramento), June 1993 – August 1993 and June 1992 – August 1992
- Student Intern, California Criminalistics Institute, June 1992 – August 1992

## **PROFESSIONAL LICENSES/CERTIFICATION**

- Diplomate, American Board of Criminalistics, 1998 – 2014
- Fellow, American Board of Criminalistics, 2014 – present
- Associate of Firearms and Toolmark Examiners

- Firearms certification (written tests) – 1999
- Firearms and toolmark practical's – 2009 - 2019
- Distance determination and gunshot residue, 2010 - 2016
- ASCLD/LAB certified assessor, 2012

## TESTIMONY EXPERIENCE

Testified in California, Nevada, New Mexico, Illinois, Oregon, and the District of Columbia, including State and Federal courts.

● Controlled Substance Analysis:	74 times	1995 to Present
● Crime Scene Processing:	19 times	1996 to Present
● Firearms Examination/SIR:	227 times	1997 to Present
○ Force Options	25 times	2006 to Present
● Latent Print Processing:	9 times	1997 to Present
● <b>Total</b>	<b>329 times</b>	<b>1995 to Present</b>

## PROFESSIONAL AFFILIATIONS

- California Association of Criminalists (CAC), June 1992 – present
- Northern California Firearms Study Group, August 1996 – present
- Chairman of North California Firearms Study Group, January 2004 – June 2017
- NIBIN User Group, May 1997 – June 2012
- American Academy of Forensic Sciences, February 1998 – present
- Association of Firearms and Toolmark Examiners (AFTE), July 1999 – present
- National Rifle Association, June 1983 - present
- International Wound Ballistics Association (disbanded), June 1999 – 2003
- CAC Training and Resources Committees, 2004 – 2010
- President, CAC, 2015 – 2016
- Documentation Sunset Committee, AFTE, 2004 – 2005
- Assisted with drafting Documentation Standards, AFTE, 2005

## SPECIAL TRAINING

- |  |           |
|--|-----------|
| ● CAC General Crime Scene workshop<br>Various speakers / topics<br>Virtual Meeting online (4 hours)              | Dec. 2020 |
| ● CAC Bloodstain Pattern Analysis workshop<br>Various speakers / BPA topics<br>Virtual Meeting online (4 hours)  | Dec. 2020 |
| ● Northern California Firearms Study Group<br>Multiple presenters and topics<br>Virtual Meeting online (4 hours) | Dec. 2020 |
| ● Concealed Carry Weapons<br>Josh McClanahan FoxHole Tactical<br>CCW license refresher class (4 hours)           | Dec. 2020 |
| ● Introduction to Statistical Thinking for Forensics<br>Dr. Hal Stern, UC Irvine<br>San Francisco, CA (6 hours)  | Jan. 2020 |

- NorCal Firearms Study Group  
Various speakers (Presented)  
Sacramento, CA (6 hours) Nov. 2019
- CSDIAI Annual Seminar  
Various speaker (Presented workshop)  
Burlingame, CA (8 hours) April 2019
- NorCal Firearms Study Group  
Various speakers (Presented)  
Sacramento, CA (6 hours) Sept 2018
- Statistics for Data Analysis  
Jose Portilla/Pierian Data Inc.  
Udemy online (5.5 hours) August 2018
- Barrel Manufacturing Workshop  
Allan Offringa, ATF Retired  
Charleston, West Virginia (4 hours) June 2018
- LWRCI manufacturing / AR-15 function  
Joseph Martin, LWRCI  
Charleston, West Virginia (4 hours) June 2018
- AFTE meeting  
Various topics  
Charleston, West Virginia (40 hours) June 2018
- Concealed Carry Weapons  
Josh McClanahan FoxHole Tactical  
CCW license class (8 hours) April 2018
- Mideo training  
Ashley Rachel/Travis Larkin  
Washington D.C., DFS (4 hours) August 2017
- Mideo training  
Steve Scarbourgh  
Washington D.C., DFS (3 hours) July 2017
- Testimony training in the PCAST era  
Multiple Speakers  
Washington D.C., DFS (4 hours) June 2017
- Cybersecurity training  
Octo  
Washington D.C., DFS (2 hours) May 2017
- PCAST training  
Multiple Speakers  
Washington D.C., DFS (4 hours) February 2017
- CAC Biannual Seminar  
Multiple Speakers  
Palm Springs, CA (24 hours) November 2016
- CAC Biannual Seminar  
Multiple Speakers  
Los Angeles, CA (24 hours) May 2016
- Ammunition Reloading: Forensic Issues  
Mike Giusto, CCI  
Sacramento, CA (24 hours) March 2016

- CAC Biannual Seminar  
Multiple Speakers  
San Mateo, CA (24 hours) September 2015
- Assertive Supervision Workshop  
Marin Consulting/CA POST  
Dublin, CA (24 hours) September 2015
- Bloodborne Pathogens Safety  
Target Solutions  
Martinez, CA (8 hours) August 2015
- CAC Biannual Seminar  
Multiple Speakers  
Ventura, CA (24 hours) May 2015
- CAC Biannual Seminar  
Multiple Speakers/Workshop presenter  
Rohnert Park, CA (40 hours) October 2014
- ASCLD/LAB Certified Technical Assessor  
ASCLD/LAB  
Martinez, CA (8 hours) September 2014
- CAC Biannual Seminar  
Multiple Speakers  
San Diego, CA (24 hours) May 2014
- Sig Sauer Pistol Armorer's Course  
KC Frederick/Sig Sauer  
Contra Costa Sheriff's Office Range (24 hours) February 2014
- Basic Internal Affairs Investigations  
Gary Gregson/D-Prep  
Martinez, CA (40 hours) October 2013
- AFTE Meeting  
Various topics  
Albuquerque, NM (48 hours) June 2013
- Suppressor Design and Function  
Dr. Phil Dater, Gemtech  
Contra Costa Sheriff's Office Range (24 hours) May 2013
- CLETS Training  
Debi Yeager Tech Services  
Martinez, CA (4 hours) March 2013
- AICC Post Instructor Training  
California POST  
Contra Costa LETC (40 hours) October 2012
- Sound Level Measurement  
Quest Technologies  
Emeryville, CA (8 hours) August 2012
- CAC Biannual Seminar  
Multiple Speakers/Presenter  
Bakersfield, CA (16 hours) May 2012
- ISO Assessors Training  
Anja Enle, ASCLD/LAB  
Los Angeles, CA (40 hours) October 2011

- AAFS Meeting February 2011  
Multiple Speakers  
Chicago, IL (40 hours)
- Criteria for Identification Refresher November 2010  
John Murdock and Bruce Moran  
Sacramento, CA (24 hours)
- Leica Scanning Conference Task Force October 2010  
Tony Grissim/Leica GeoSystems  
San Ramon, CA (4 hours)
- Leica Laser Scanning for SIR Workshop October 2010  
Mike Haag  
Contra Costa Sheriff's Office (8 hours)
- Bullet Performance, Perforation of and Deflection May 2010  
Luke Haag, Mike Haag  
Henderson, NV (8 hours)
- AK & SKS Weapon System Familiarization May 2010  
Matt Babb, Long Mountain Outfitters  
Henderson, NV (4 hours)
- High Speed Video of Firearms Discharge Events May 2010  
Rich Sutherland, Integrated Design Tools  
Henderson, NV (4 hours)
- AFTE Meeting May 2010  
Various topics  
Henderson, NV (24 hours)
- Mini-CMS Workshop April 2010  
Bruce Moran and John Murdock  
Contra Costa Sheriff's Office (6 hours)
- Machine gun Design and Modification Workshop October 2009  
Ed Peterson, CAC  
San Jose, CA (8 hours)
- Incident Command System 300/400 August 2009  
FEMA  
Contra Costa Sheriff's Office (32 hours)
- ISO Primer July 2008  
ASCLD/LAB  
Oakland, CA (24 hours)
- FX3 Crime Scene Diagramming Software June 2008  
Sam El-Said  
Contra Costa Sheriff's Office (24 hours)
- Advanced Bloodstain Analysis February 2008  
Tom Bevel  
FBI-ERT, Oakland, CA (40 hours)
- Ballistic Experiments January 2008  
Yuma Proving Grounds  
Yuma, AZ (16 hours)
- Firearms Manufacturing January 2008  
Ruger Firearms  
Prescott, AZ (4 hours)

- Identification of Building Materials September 2007  
Bill Schneck, CCI  
Sacramento, CA (638 hours)
- Tactics for the Supervisor July 2007  
Fred Pryor Training  
Clayton, CA (8 hours)
- Supervisor Training (Sergeant) August 2007  
Sacramento Regional Training Center  
Sacramento, CA (80 hours)
- ISO Standards for Firearms Examiners June 2007  
ASCLD/LAB & ISO  
San Francisco, CA (4 hours)
- Investigating Long Range Shootings & June 2007  
Sniper Cases II; Luke Haag, FSSI  
San Francisco, CA (16 hours)
- AFTE Meeting June 2007  
Various Topics  
San Francisco, CA (40 hours)
- Ballistic Vest Testing February 2007  
Gator Hawk, Armor Holdings  
Contra Costa Sheriff's Range (8 hours)
- Investigating Long Range Shootings & June 2006  
Sniper Cases; Luke Haag, FSSI  
Springfield, MA (8 hours)
- Integrity Character, and Ethics in Forensic Science June 2006  
Dan Gunnel  
Springfield, MA (4 hours)
- AFTE Meeting June 2006  
Various Topics/Tour of Manufacturers  
Springfield, MA (40 hours)
- Force Options Simulator Instructor April 2006  
Jeff Anderson  
Contra Costa Sheriff's Office (40 hours)
- Winchester Wound Ballistics Workshop February 2006  
Adamsons Police Products  
South San Francisco Police Department, CA (4 hours)
- Remington Wound Ballistics Workshop December 2005  
Mark Cockman, Remington LE  
Union City Police Department, CA (4 hours)
- Patrol Rifle Operator December 2005  
Contra Costa Sheriff's Office  
Contra Costa Sheriff's Range (24 hours)
- Patrol Rifle Instructor December 2005  
Sacramento Regional Training  
Sacramento, CA (24 hours)
- Firearms Instructor November 2005  
Sacramento Regional Training  
Sacramento, CA (80 hours)

- SuperFume Training September 2005  
Robert Kelly, Foster Freeman  
Martinez, CA (2 hours)
- Gemtech Suppressors and Suppressor Technology June 2005  
Philip Dater  
Indianapolis, IN (3 hours)
- Firearms Misadventures June 2005  
Luke Haag  
Indianapolis, IN (8 hours)
- AFTE Meeting June 2005  
Various Topics  
Indianapolis, IN (40 hours)
- Glock Armorer's Class June 2005  
Chad Pierce, Glock  
Contra Costa Sheriff's Office Range (8 hours)
- Sig Sauer Armorer's Class June 2005  
KC Fredrick, Sigarms  
Contra Costa Sheriff's Office Range (16 hours)
- Shooting Reconstruction November 2004  
Gunsite/Luke Haag and Mike Haag  
Prescott, AZ (44 hours)
- Serial Number Restoration August 2004  
Mike Giusto, CCI  
Sacramento, CA (24 hours)
- Full Auto Conversions May 2004  
Richard Vasquez, BATF  
Vancouver, BC (8 hours)
- AFTE Meeting May 2004  
Documentation Standard, Ethics  
Vancouver, BC (40 hours)
- Armorer's Class (Rem 870, Rem 700, AR-15) February 2004  
Ron Fruguitti  
Martinez, CA (40 hours)
- Firearms Safety December 2003  
Mike Giusto, CCI  
Dublin, CA (24 hours)
- Bullet Ricochet April 2003  
Luke Haag, FSSI  
Reno, NV (8 hours)
- Bloodstain Pattern Analysis October 2002  
Tom Bevel, TBI  
Oakland, CA (40 hours)
- Clan Lab Processing September 2002  
CCI/Department of Justice  
Sacramento, CA (40 hours)
- Terminal Ballistics August 2002  
Hornady/Nice Shot  
Ione, CA (6 hours)

- Basic POST Academy January – May 2002  
Contra Costa Sheriff's Office  
Antioch, CA (1000+ hours)
- Presumptive Blood Screening October 2001  
Santa Clara County Crime Laboratory  
San Jose, CA (20 hours)
- Officer Involved Shooting Crime October 2001  
Scene Reconstruction/CAC  
Oakland, CA (4 hours)
- Latent Prints Processing September 2001  
Department of Justice  
San Jose, CA (8 hours)
- AFTE Meeting July 2001  
Criteria Symposium, Armorer's Class  
Newport Beach, CA (40 hours)
- Machine Shop Orientation/Practical December 2000  
Northern California Firearms Study Group  
Lodi, CA (8 hours)
- AFTE Meeting July 1999  
Certification Tests, Criteria Workshop  
Williamsburg, VA (40 hours)
- Wound Ballistics Workshop June 1999  
International Wounds Ballistics Association  
San Mateo, CA (8 hours)
- Toolmark Criteria for Identification May 1999  
CCI  
Sacramento, CA (40 hours)
- Flourescein Processing December 1998  
Santa Clara County Crime Lab  
San Jose, CA (8 hours)
- Bullet Path Reconstruction/Analysis September 1998  
CCI  
Sacramento, CA (40 hours)
- Firearms and Toolmarks Identification II March 1998  
CCI  
Sacramento, CA (40 hours)
- Firearms and Toolmarks Identification I February 1998  
CCI  
Sacramento, CA (40 hours)
- Latent Prints Processing September 1997  
Santa Clara County Crime Lab  
San Jose, CA (16 hours)
- Firearms Examination and Identification November 1996  
Santa Clara County Crime Lab thru November 1997  
San Jose, CA (1200+ / 600+ hours) continued thru November 2001
- Bullet Path Reconstruction October 1996  
Evergreen Community College  
San Jose, CA (16 hours)



- IBIS Operation and Administration September 1996  
Forensic Technology, Inc.  
San Jose, CA (40 hours)
- Crime Scene Investigation I February 1996  
CCI  
Los Angeles, CA (40 hours)
- Mass Spectra – Theory and Interpretation January 1996  
CCI  
San Diego, CA (32 hours)
- Firearms Examination November 1995 to April 1996  
Los Angeles Police Department/SID  
Los Angeles, CA (96 hours)
- Courtroom Testimony October 1995  
Ray Davis, CCI  
Long Beach, CA (12 hours)
- Crime Scene Processing September to December 1995  
Los Angeles Police Department/SID  
Los Angeles, CA (128 hours)
- Controlled Substance Analysis May to September 1995  
Los Angeles Police Department/SID  
Los Angeles, CA (240 hours)

## **PUBLICATIONS/PRESENTATIONS/RESEARCH**

1. VR80 Shotgun – California Legal semiautomatic shotgun, Tibbs Motion discussion; presented at the Northern California Firearms Study Group Meeting, Sacramento Co. Crime Lab, Sacramento CA, Nov. 19<sup>th</sup>, 2019.
2. Get the Blood Out! Cleaning Bloody Bullets, presented at the Northern California Firearms Study Group Meeting, CCI Lab, Sacramento, CA Sept. 18<sup>th</sup>, 2018.
3. Quantofix Nitrite Sheets, presented at the Northern California Firearms Study Group Meeting, CCI Lab, Sacramento, CA Sept. 18<sup>th</sup>, 2018.
4. Ghost Glock, Presented at AFTE 2018 meeting BYOS session, Charleston, WV, June 4<sup>th</sup>, 2018.
5. Taurus PT99AF Project, presented at the Northern California Firearms Study Group Meeting, Santa Clara Co. Crime Lab, April 6<sup>th</sup>, 2017.
6. Evofinder Research, presented at the Northern California Firearms Study Group Meeting, CCI Lab, Sacramento, CA May 14, 2015.
7. Evofinder Update: How it compares to other ballistic imaging systems. Presented at the Southern California Firearms Study Group Meeting, Orange County Crime Lab, Sept. 18, 2014.
8. Leica Scanner SIR Workshop, with Tony Grissom and Mike Haag, 8 hour workshop presented at the AFTE meeting, Albuquerque, NM, June 23, 2013.

9. Bullet Path Reconstruction: Accuracy, Precision, and Error Rates, presented at the AFTE Meeting, Albuquerque, NM June 6, 2013.
10. Bullet Path Reconstruction: Results of 7 Years of Research, presented at the CAC Northern California Firearms Study Group Meeting, Hayward, CA on May 31, 2012.
11. Bullet Path Reconstruction: Accuracy, Precision, and Error Rates, presented at the CAC Meeting, Bakersfield, CA, May 11, 2012.
12. Bullet Path Reconstruction: Results of 7 Years of Research, presented at the CAC Meeting, Bakersfield, CA, May 10, 2012.
13. Shooting Reconstruction for Crime Scene Responders, with Bruce Moran (Sacramento Co. District Attorney's Crime Lab), Workshop presented at CAC Meeting, Sacramento CA, October 21, 2008.
14. A Bullet to Cartridge Case Identification, presented at the Northern California Firearms Study Group Meeting in Davis, CA, Sept. 17, 2008.
15. Special Threats: The Winchester 9mm 127 grain SXT +P+, presented at the Northern California Firearms Study Group Meeting in Martinez, CA, Sept. 20, 2007.
16. Ballistic Vest Testing, presented at the Northern California Firearms Study Group Meeting in Ripon CA, Jan 25, 2007.
17. A Glock Malfunction presented at the Northern California Firearms Study Group Meeting in Ripon CA, Jan 25, 2007.
18. Shooting Reconstruction for Crime Scene Responders, with Bruce Moran (Sacramento Co. District Attorney's Crime Lab), Workshop presented at CAC/FSS Joint Meeting, Concord, CA, May 9, 2006.
19. The FN FiveSeven pistol versus a ballistic vest, presented at the Northern California Firearms Study Group Meeting in Hayward CA, July 14, 2005.
20. Barrel Casting; Evaluation of Forensic Sil, presented at AFTE Meeting in Indianapolis, Indiana, June 23, 2005.
21. *The California "Assault Weapons" Ban*, article published in Behind Locked Doors, Official publication of the California Association for Property and Evidence, February 2000 Vol.1, pg. 12-15.
22. Cleaning Bloody Bullets with Haemo-sol™, presented at the 3<sup>rd</sup> Annual IBIS International Users Group Meeting, Portland, Oregon, April 29, 1998.

## **TEACHING EXPERIENCE**

Firearms Examinations: What Forensics Can Do For You, Presented to the Monterey County Public Defender's Office, Monterey CA, November, 19<sup>th</sup> 2018

Firearms Examinations: What Forensics Can Do For You, Presented to the Stanislaus County Public Defender's Office, Modesto CA, June, 21<sup>st</sup> 2018

Shooting Incident Reconstruction, with Bruce Moran (Sacramento Co. DA's Crime Lab), 40 hour class presented at Contra Costa Office of the Sheriff Range in association with the California Criminalistics Institute, Oct. 2-6, 2017, April 27-May 1, 2015; June 3-7, 2013; Oct. 17-21, 2011; Sept. 20-24, 2010; May 18-22, 2009; July 7-11, 2008;

LD 40 Weapons Violations, Contra Costa Office of the Sheriff Law Enforcement Academy, Class 169, Dec. 10, 2015; Class 174, July 23, 2015; Class 173, February 6, 2015; Class 172, September 18, 2014; Class 171, June 12, 2014; Class 170, February 20, 2014; Class 169, November 13, 2013; Class 168, June 11, 2013; Class 167, December 7, 2012; Class 166, June 6, 2012; Class, June 15, 2011; Class 165, January 1, 2010; and Class 164, July 22, 2009.

Special Issues in Forensic Firearms Identification, 16-hour Workshop presented at the Fall CAC Seminar in Rohnert Park, CA Oct. 20-21<sup>st</sup>, 2014

The Science of Gunfighting: Firearms Instructor Course (POST certified), Contra Costa Office of the Sheriff Range, Sept. 29 - Oct. 2, 2014; May 6 - 9, 2013; Oct. 29 - Nov. 1, 2012; Aug. 30, 2010

Laser Scanning for Bullet Path Reconstruction: Accuracy, Precision, and Error Rates, Presented with Tony Grissim from Leica, San Jose SO Range, Sept 21, 2013.

Knobs, Knurls, and Eight Different Directions: Firearms Safety, California Association of Property and Evidence, Annual Seminar Conference meeting, Monterey CA, February 5, 2015, July 18, 2013, February 10, 2011, March 6, 2008.

Knobs, Knurls, and Eight Different Directions: Firearms Safety, Contra Costa Office of the Sheriff Law Enforcement Academy, Class 166, June 16, 2011; Class 165, Jan 4, 2010; Class 164, July 23, 2009; Class 163, February 12, 2009; Class 162, August 14, 2008; Class 161, March 13, 2008; Class 160, October 4, 2007; Class 159, April 5, 2007; Class 158, Oct. 5, 2006.

Machinegun Design and Modification Workshop, CAC Workshop, Santa Clara County Crime Lab, October 26, 2009 (Instructor and Rangemaster for live fire).

Firearms Safety (in association with DOJ/CCI), Contra Costa Sheriff's Range, Nov. 3-5, 2009; April 1-3, 2009; April 22-24, 2008.

Basic Firearms Evidence and Examination, Contra Costa County DA's Office Occasional Training Seminar in Napa, Feb. 3, 2007.

Basic Firearms Safety, Function Testing, and Make and Model Determination Training, Laboratory Aide Donnie Finley, Contra Costa County Crime Laboratory, Nov. 2004.

Bullet Path Reconstruction Training, Several members of the Laboratory Staff and other Law Enforcement agencies in our County, Contra Costa County Crime Laboratory, Aug. 2004

Firearms Safety Training, Several members of the Laboratory Staff, Contra Costa County Crime Laboratory, July 2004.

Make and Model Determination Training, Laboratory Aide Terence Wong, Contra Cost County Crime Laboratory, Jan. 2004.

Shooting Scene Documentation Training, Vallejo PD, Contra Costa County Crime Laboratory, May 2003.

Firearms Function Training, Criminalist Eric Collins, Contra Cost County Crime Laboratory, Dec. 2002.

Make and Model Determination Training, Criminalist Eric Collins, Contra Cost County Crime Laboratory, Oct. 2002.

Basic Firearms Safety and Function Testing, Criminalist Eric Collins, Laboratory Aides Leah Priest and Terence Wong, Contra Costa County Crime Laboratory, Sept. to Oct. 2002.

Basic Firearms Evidence and Examination, San Jose Police Department, March 28, 2001.

Basic Firearms Examination, West Valley College Administration of Justice students, April 12, 1999.

Basic Firearms Safety and Function Testing, Criminalists Eric Barloewen and Rhonda Weiss, Santa Clara County Crime Laboratory, Jan. 11 to Feb. 25 1999. (Ongoing training with Criminalist Barloewen until Sept. 2001).

Basic Firearms Evidence and Examination Class, Santa Clara County Public Defender's Office, Sept. 29 and Oct. 6, 1998.

Basic Firearms Evidence and Examination, Santa Clara County District Attorney's Office, Sept. 4, 1997; and March 24, 1998.

Certified armorer in the following: Colt 1911, Smith & Wesson Pistol/Revolver, H&K USP, Savage bolt action rifle, AR-15/M-16/M-4, Remington 870, Remington 700, Sig Sauer Pistol, Glock, Hi-Point and M1A armorer.

## **AWARDS**

Officer of the Month, Contra Costa Office of the Sheriff, Forensic Services, May 2013.

Officer of the Month, Contra Costa Office of the Sheriff, Forensic Services, Sept. 2004.

Officer of the Year, Contra Costa Office of the Sheriff, Forensic Services, 2003.

Commendation from Mayor Hammer, San Jose, CA, December 1998.

