

Andrew J. Thoresen

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Education:

Marquette University, Milwaukee, WI: Bachelor of Science in Electrical and Electronic Engineering
FE Certification, 2003
PE Certification, 2007; Licensed in Arizona (License: 47603), California (License: E19615), New Mexico (License: 19441), Nevada (License: 020220).

Work Experience:

Principal Electrical Engineer; May 2004 to Present

Oracle Forensics Inc, Phoenix, AZ

- ❖ Lead engineering expert on approximately 2000 fire/personal injury cases
- ❖ Professional photographer including aerial photography.
- ❖ Expert in loss site documentation, preservation, evidence collection, reconstruction, 3D Reconstruction Renderings, and Animation directing.
- ❖ Expert in electrical engineering, failure analysis, and electrocution.
- ❖ Extensive Trial and Deposition Experience.
 - ❖ Notable Testimony Examples:
 - [Michael Marin](#), [Skip Rimsza](#)
- ❖ International experience.
 - ❖ Notable case examples:
 - [Valley Fire](#), [Michael Marin](#), [San Mateo Limo Fire](#), [Juarez, Mexico Candy Explosion](#), [LDS Church Fire \(ATF task Force\)](#), [Ranch Market](#), [Mark Kia Dealership](#), etc.
- ❖ Examples of Classes taught by Mr. Thoresen in Forensic, Electrical Engineering:
 - Electrical Appliance Fires (Schaumburg, IL) 11/02, International Association of Electrical Inspectors (Tempe, AZ) 7/06, Electrical Engineering Analysis and Evidence Collection (Scottsdale, AZ) 4/10, Electrical Engineering - Beyond Subrogation (Tempe, AZ) 4/1, Arc Mapping/Live Burn Demonstration at The City of Phoenix Fire Department HQ (Phoenix, AZ) 11/12, Forensic Electrical Engineering – A Whiff of Electrical (Phoenix, AZ) 11/12, Electrical Fire Case Summary for Phoenix Fire Department Investigation Department (Phoenix, AZ) 2/13, Arson 2 (Prescott, AZ) 4/2013, Electrical Forensic Engineering for Phoenix Fire 3/2016, Lithium Battery Failures 3/2016.
- ❖ Examples of Manufacturing Companies that Mr. Thoresen has consulted with as a forensic electrical engineer:
 - Broan-NuTone (ventilation fan manufacturer), Universal Metal Industries (ventilation fan manufacturer), Philips (ventilation fan manufacturer), Gibraltar Industries (attic fan manufacturer), Toyota, Norcold, Cooper Industries, Leviton Manufacturing, Electrolux, General Electric
- ❖ Examples of Insurance Companies that Mr. Thoresen has consulted with as a forensic electrical engineer:
 - State Farm, Allstate, Travelers, Liberty Mutual, American Family, Country Financial, Finpac, ANPAC, Farmers, Farm Bureau, USAA, Mercury, Kemper, Nationwide, Hartford, Philadelphia

Electrical Engineer/Manager of Southwest Territories, September 2002 to May 2004

Anderson Engineering of New Prague Inc, Phoenix, AZ

- ❖ Oversaw all day-to-day operations of the Phoenix office
- ❖ Deciphered the failure modes associated with hundreds of different electrical/water devices
- ❖ Electrical-fire scene investigations
- ❖ Consulted on cases for attorneys and aided in the litigation processes

Electrical Engineering Department, June 2001 to August 2001

Life Fitness, Franklin Park, IL

- ❖ Completed different tasks in reliability engineering:
 - ❖ Keypad enviro-chamber testing
 - ❖ Electrical component stress analysis
 - ❖ New component qualification testing:
 - ❖ MOSFET testing
 - ❖ NPN-BJT testing

Electrical Engineering Department, May 2000 to May 2001

Johnson Controls Inc, Milwaukee, WI

- ❖ Extensive testing with Metasys software, HVAC systems and thermostats
- ❖ Tested different types of thermostats
- ❖ Engaged in different capacitor, voltage ripple testing for power supplies.



Publications:

1. **VENTILATION FAN FIRES: Overheated Windings and Malfunctioning Thermal Limit Switch Lead to Arcing, Fire Technology, 8/11/2014, Author**
2. **Fire Investigator: Principles and Practice to NFPA 921 and 1033, Chapter 6 (Electrical), Fourth Edition, Coauthor, Editor**

RECORD OF EXPERT WITNESS TESTIMONY

<u>Date</u>	<u>Type</u>	<u>Case Name</u>	<u>Jurisdiction</u>
March 29/30, 2016	Trial	Libby V. Lichte	Pima County (AZ) Superior No. CV20117776
November 14 th , 2015	Depo	Schneider V. Hobbico	Maricopa County (Superior) No. CV2012018271
October 14 th , 2015	Video Depo	Casual Nails V. Jackson	Pima Country (Superior) No. CV20127258
October 28 th , 2013	Depo	Negrete V. Broan	Yuma County (Superior) No. CV2011-01081
October 9 th , 2013	Trial	Boyle V. Ford	Pima County (Superior) No. CV2012-0675
September 20, 2013	Depo	Boyle V. Ford	Maricopa County (Superior) No. CV2012-0675
August 20 th , 2013	Depo	Amica Vs, Broan	Maricopa County (Superior) No. CV2012-002388
June 10 th , 2013	Depo	Feather vs. Auto Owners	Maricopa County (Superior) No. CV2012-003252
April 8 th , 2013	Depo	State Farm vs. Jakel	Maricopa County (Superior) No. 2011-001424
November 14 th , 2012	Depo	State Farm vs. Jakel	Maricopa County (Superior) No. 2011-001424
Sept 20 th , 2012	Depo	Voboril Vs. Gockel	Yavapia County (Superior) No. cv1300cv20080295
June 14 th , 2012	Trial	State of Arizona vs. Michael Marin	Maricopa County (AZ) Superior No. CR2009-154846
June 7 th , 2012	Trial	State of Arizona vs. Michael Marin	Maricopa County (AZ) Superior No. CR2009-154846
February 16 th , 2012	Trial/Hearing	APSES vs. Maricopa County	Maricopa County (AZ) Superior
January 31 st , 2012	Depo	Lichte Vs. Libby	Pima County (AZ) Superior No. CV20117776
November 18 th , 2011	Defense Interview	State of Arizona vs. Michael Marin	Maricopa County (AZ) Superior No. CR2009-154846
September 27 th , 2011	Depo	Western Ins. Vs Chandler Stonebridge	Maricopa County (AZ) Superior No. CV2010-050842
May 13 th , 2011	Depo	State Farm Vs. Venom	Bernalillo County (NM) Second Court cv 2009-11769

<u>Date</u>	<u>Type</u>	<u>Case Name</u>	<u>Jurisdiction</u>
October 20 th , 2010	Depo	Lliff Vs. Ford Motor	Maricopa County (AZ) Superior Court cv2008-013588
April 8 th , 2010	Depo	Redemptorists Vs LJS Electric	Pima County (AZ) Superior Court cv2007-5799
October 5 th , 2009	Depo	Farmers Ins. Vs. Haskins Electric	Maricopa County (AZ) Superior Court cv2008-050895
November 7, 2008	Depo	RTB Enterprises vs Rural Metro	Yuma County (AZ) Superior Court cv2006-00704
February 11, 2008	Depo	CAU vs Whirlpool	Maricopa County (AZ) Superior Court cv2006-013450
November 16, 2007	Depo	Taylor vs Sienna Apts	Maricopa County (AZ) Superior Court cv2006-000926
October 3, 2006	Depo	Amica Mutual v. US Green Fiber	Maricopa County (AZ) Superior Court cv2004-014969