

## James C. Andres (Chris) | Senior Forensic Engineer, CFEI, PE

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### Professional Summary:

Mr. Andres is a Senior Forensic Engineer with over 40 years of mechanical and electrical engineering experience including forensic experience in cases involving electrical and mechanical failures in automotive, appliances and electronics, HVAC, lightning strikes, power surges, boilers, heating and cooling systems, product liability evaluation, and fire suppression sprinkler systems. He has investigated a utility-sized photovoltaic solar farm in Mexico for hurricane related damages. He has investigated utility sized wind turbines for mechanical and electrical sources of ignition in fire related assignments as well as gearbox and bearing failures. He has investigated residential foundation settling and fire-damage claims and provided cost estimates for structural, industrial and medical equipment losses due to fire, wind, storm surge and hail damage. He has also investigated the mechanical and/or electrical origin and cause of fire damaged properties and is certified by NAFI-IAFI as a fire investigator. He has eight years of experience in yield enhancement process engineering in Texas Instruments 300-mm Semiconductor Wafer Fab which involved data gathering thru systematic inspection of semiconductor product, investigation and analysis of random and systematic defects. He also served as an Equipment Engineer responsible for the specifications, installation and maintenance of multi-million-dollar inspection equipment used in semi-conductor manufacturing. He has over 22 years of experience in the design, analysis and manufacture of high-performance equipment for military customers while employed by Texas Instruments Defense Equipment Group. Area of Expertise include:

- Water Intrusion
- Chilled Water Systems
- Boiler and Heating Systems
- HVAC Evaluation
- Automotive Evaluation
- Catastrophe Response
- Digital Electronics and Computer Hardware
- Hail Damage Assessment
- Commercial and Residential Roofing
- Lightning Damage Assessment
- Machine Design and Fabrication
- Swimming Pools
- Commercial Buildings
- Product Liability Testing

### Licenses and Certifications:

Professional Engineer, State of Connecticut, License # 27020

Professional Engineer, State of Delaware, License # 19619  
Professional Engineer, District of Columbia, License # PE905705  
Professional Engineer, State of Illinois, License # 062.061548  
Professional Engineer, State of Indiana, License # PE11012357  
Professional Engineer, State of Iowa, License # 20014  
Professional Engineer, State of Kentucky, License # 27112  
Professional Engineer, State of Maine, License # PE13236  
Professional Engineer, State of Maryland, License # 41157  
Professional Engineer, State of Massachusetts, License # 48808  
Professional Engineer, State of Michigan, License # 6201055815  
Professional Engineer, State of Minnesota, License # 48135  
Professional Engineer, State of Missouri, License # 2010008949  
Professional Engineer, State of New Jersey, License # GE48889  
Professional Engineer, State of New York, License # 089842-1  
Professional Engineer, State of North Dakota, License # PE-7318  
Professional Engineer, State of Ohio, License # E-74523  
Professional Engineer, State of Pennsylvania, License # PE077452  
Professional Engineer, State of South Dakota, License # 13498  
Professional Engineer, State of Texas, License # 74903  
Professional Engineer, State of Virginia, License # 0402046368  
Professional Engineer, State of Wisconsin, License # E-40307-006

### Project Experience:

Assessment of electrical and mechanical equipment damage caused by Hurricane Maria in Puerto Rico for companies insuring LensCrafters, Marshalls / TJ Max, KIMCO mall properties, Puerto Rico Aqueduct and Sewer Authority, public and private radio and television antennae systems, MRI and medical equipment at hospitals and universities.

Assessment of semiconductor process equipment and wafer product damage caused by earthquake at Taiwan Semiconductor Manufacturing Company in Tainan City, Taiwan.



Evaluation of hail impact damage to insulated refrigerant lines on top of refrigerated storage warehouses owned by Five Star Property Management in El Paso, TX and support of litigation with deposition testimony.

#### **Court Qualifications/ Depositions:**

Litigation CV available upon request.

#### **Professional Experience:**

EFI Global, Inc., Senior Forensic Engineer, 2019 - current  
Envista Forensics, Senior Project Engineer, 2008 – 2019  
Texas Instruments, Process Engineer, 2000 – 2008  
Texas Instruments / TI Raytheon Systems, Senior Mechanical Design Engineer, 1978 - 2000

#### **Specialized Education:**

Certified Fire and Explosion Investigator (CFEI), NAFI-IAFI, 2015  
HAAG Commercial and Residential Roof Assessment, HAAG Engineering, 2010

#### **Education:**

Bachelor of Science Mechanical Engineering, University of Cincinnati, Cincinnati OH, 1978

#### **Affiliations:**

American Society of Mechanical Engineers  
International Association of Arson Investigators (IAAI)  
National Association of Fire Investigators, International (NAFI-IAFI)