

## PROFILE

Mr. Andrew Schmit, Assistant Technical Director of the Electrical/Mechanical group, came to Envista in 2014 with a Bachelor's and a Master's degree in Mechanical Engineering from Texas Tech University. During graduate school, he focused his studies on the field of failure analysis and forensic engineering and provided consulting services to various clients seeking litigation or subrogation support. He also has experience evaluating mechanical equipment post-loss to determine the extent of damage and scope of repairs, as well as conducting materials analyses to determine the origin and root cause of component failures. At Envista, Mr. Schmit has become experienced in providing analysis of mechanical failures involving property loss, personal injury, and product liability. Key strengths include the following:

- ▶ Material Analysis
- ▶ Product Liability
- ▶ Fractography
- ▶ Equipment Restoration
- ▶ Corrosion Failures
- ▶ Guarding
- ▶ Labels and Warning
- ▶ Manufacturing Equipment
- ▶ Stamping Presses
- ▶ HVAC and Plumbing
- ▶ Sporting Equipment
- ▶ Agricultural Machinery
- ▶ Heavy Equipment
- ▶ Hydraulic Systems

## EDUCATION

### **Master of Science, Mechanical Engineering, 2014**

*Texas Tech University – Lubbock, TX*

### **Bachelor of Science, Mechanical Engineering, 2012**

*Texas Tech University – Lubbock, TX*

## LICENSES

### **Professional Engineer (PE):**

- ▶ Colorado
- ▶ Illinois
- ▶ Indiana
- ▶ Iowa
- ▶ Kentucky
- ▶ Michigan
- ▶ North Carolina
- ▶ Ohio
- ▶ Pennsylvania

## CONTINUING EDUCATION

- ▶ Practical Fractography – ASM International
- ▶ Elements of Metallurgy – ASM International
- ▶ Metallographic Techniques – ASM International

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Atlanta, GA 30342

## WEBSITE

[www.envistaforensics.com](http://www.envistaforensics.com)

## PROFESSIONAL BACKGROUND

**February 2022 – Present: Envista Forensics – Columbus, OH**  
*Assistant Technical Director – Electrical/Mechanical*

**January 2020 – February 2022: Envista Forensics – Columbus, OH**  
*Senior Project Engineer*

**January 2018 – January 2020: Envista Forensics – Columbus, OH**  
*Project Engineer*

**June 2014 – December 2017: Envista Forensics – Columbus, OH**  
*Technical Consultant*

**October 2012 – May 2014: Real World Forensic Engineering – Lubbock, TX**  
*Technical Consultant*

## REPRESENTATIVE PROJECT EXPERIENCE

### **Water Supply Line Failure Analysis**

*Evaluation of fractured HVAC water supply line in downtown high-rise building*

- ▶ Inspected the fracture of a water supply line used to carry high-pressure water into a heat pump on an upper floor. It was determined that an installation error had put the supply line into a state of constant stress, eventually resulting in a catastrophic failure.

### **Gear Tooth Failure Analysis**

*Material analysis of a fractured gear tooth from a piece of manufacturing equipment*

- ▶ Assisted in determining the extent of damage to a mechanical stamping press after a gear tooth fractured within the crown. After analysis of the fracture surface, it was determined the gear had failed due to tooth-bending fatigue.

### **Hydraulic Hose Rupture Resulting in Machine Operator Injuries**

*Failure analysis of a hydraulic hose in heavy machinery*

- ▶ Reviewed the failure of a hydraulic hose which ruptured due to elevated hydraulic fluid temperatures. In addition to determining the root cause of failure related to a problem with the cooling system, it was also determined that the machine had been designed and constructed with insufficient guarding which would have prevented injury to the operator had it been in place.

### **Fort McMurray, AB Wildfires**

*Evaluation of industrial and commercial equipment to determine extent of soot contamination*

- ▶ Analyzed soot contamination levels in various types of equipment in industrial and commercial settings to determine the effects of the wildfires on equipment longevity. Also provided guidance for the scope of decontamination needed to restore the equipment to pre-loss condition.

**PRESENTATIONS/GUEST LECTURE APPEARANCES**

**"Forensic Engineering in Industry", Texas Tech University. September 6, 2019**