

**Chandler N. Lane**  
**Augspurger Komm Engineering, Inc.**  
**3315 E. Wier Avenue**  
**Phoenix, AZ 85040**  
**602-443-1060**  
**602-443-1074 fax**

## **EDUCATION**

Bachelor of Science, Mechanical Engineering, Grand Canyon University, (ABET Accredited)  
Graduated 04/2019

## **EXPERIENCE**

Mr. Lane has experience in manufacturing process ownership, monitoring, SPC controls implementation, and process improvements of capital industrial equipment. He has performed research, design, outsource, and acceptance testing for implementation. He has created a high-profile product line manual for special processing instructions. He has conducted single variable change experimentation for common failure modes and product defects across multiple process steps and product lines. He has conducted Quality Review Boards for scrapping, reworking and regrading products, including root cause analysis and commonality studies.

Mr. Lane has aided in the investigation and inspection of fire scenes. He has assisted in analysis of burn patterns and probable origins, leading to the retrieval and logging of suspect evidence for the fire causation.

Mr. Lane has created and implemented Calibration and Preventative Maintenance Programs for over 1,000 instruments spanning 4 sites. He has created a tracking database for Engineering Change Orders and developed an environmental monitoring system for climate controlled medical device storage facilities.

As a volunteer in the Civil Air Patrol, he has conducted ground and aircraft operations for Air Force and local state-agencies real-world emergencies. He is a Civil Patrol Ground Team Leader and is a National Association for Search and Rescue Technician II.

Mr. Lane is FAA Part 107 licensed as a drone pilot for search and rescue and commercial aerial photography. Certification # 4136644.

## **EXPERIENCE HISTORY**

|                 |  |
|-----------------|--|
| 09/20 - Present | Augspurger, Komm Engineering, Phoenix, AZ                                |
| 07/19 – 09/20   | Hexel Corporation, Casa Grande, AZ                                       |
| 06/18 – 12/18   | Merz North America, Merz Device Innovation Center, Mesa, AZ              |
| 09/15 – 09/20   | Lane Investigations, Mesa, AZ  |
| 10/15 – 04/19   | Canyon Activities Board, Phoenix, AZ                                     |
| 01/11 – 12/20   | Volunteer: United States Air Force Auxiliary, Civil Air Patrol, Mesa, AZ |

## **PROFESSIONAL AFFILIATIONS**

National Fire Protection Association (NFPA) Member 2022  
ASTM International (ASTM) Member 2022  
International Association of Arson Investigators (IAAI) Member 2021  
National Association of Fire Investigators (NAFI) Member 2021

## **CERTIFICATIONS**

State of Arizona Engineer-in-Training #013236  
IAAI Fire Investigation Technician  
Certified XL Tribometrist #2110840  
FAA UAS Remote Pilot #4136644  
SOLIDWORKS Associate of Mechanical Design

## **ACADEMIC PROJECTS**

### ***Senior Capstone***

- Planned, designed, built, and fully tested a water tunnel, achieving laminar flow across a test object
- Designed and implemented dye injection system to visualize a three-dimensional representation of hydrodynamic behavior

### ***Robotics***

- Designed and printed an end-effector for a three-jointed SCARA robot
- Coded and demonstrated movement, stacking, and packaging tasks using XSEL

### ***Instrumentation***

- Designed and constructed a pressure transducer consisting of strain gauges on a copper plate membrane
- Built and tested the applicable circuit with effective filtration and amplification components
- Designed and implemented a LabView program for quantitative data collection, with an accuracy of +/- 1 psia

## **CONTINUING EDUCATION**

International Association of Arson Investigations, 3-Day Motor Vehicle Fire Investigation, January 26-28, 2022, Tucson, AZ  
International Association of Arson Investigations, 40-Hour Fundamentals of Fire Investigation, September 27 – October 1, 2021, San Antonio, TX  
Public Agency Training Council, Hands-On Electrical Fire and Arson Investigation, May 7-9, 2018, Goodyear, AZ

**CONTINUING EDUCATION-continued**

**On-Line Tested Training**

- How to Inspect for Moisture Intrusion Course, InterNACHI, June 3, 2022
- Structural Issues for Home Inspectors Course, InterNACHI, May 11, 2022
- How to Perform Roof Inspections Course, InterNACHI, March 24, 2022
- The Practical Application of the Relationship Between NFPA 1033 and NFPA 921, IAAI, October 5, 2021
- Ethics and the Fire Investigator, IAAI, October 4, 2021
- NFPA 1033 and Your Career, IAAI, October 4, 2021
- Fire Flow Analysis, IAAI, September 20, 2021
- Legal Aspects of Investigation Youth-Set Fires, IAAI, September 20, 2021
- Introduction to Youth-Set Fires, IAAI, September 17, 2021
- Fire Investigator Scene Safety, August 13, 2021
- Understanding Fire Through the Candle Experiments, August 12, 2021
- The Scientific Method for Fire & Explosion Investigation, August 11, 2021