



Sam Shuck, P.E., CFEI

204 E. 2nd Ave, Suite 241
San Mateo, CA 94401
(360) 631-1869
sshuck@brillouinconsulting.com
www.brillouinconsulting.com



PROFESSIONAL PROFILE

Sam Shuck is an electrical engineer with a specialization in electrical forensics, failure analysis, and fire investigation. With over a decade of experience in the forensics industry, Mr. Shuck has investigated incidents relating to failed electrical equipment, lightning strikes, shocks and electrocutions, product recalls, and electrically-caused fires in both structural and wildland spaces. As part of his work, Mr. Shuck has provided expert opinions via written report, expert deposition, and trial testimony. In addition to his Professional Engineering license, Mr. Shuck is certified as a commercial drone pilot via the FAA, and a structural and wildland fire investigator via NAFI and the NWCG. Mr. Shuck also has experience in NRTL certification from his time working for Intertek (ETL) as a Compliance Investigator certifying industrial equipment and electrical appliances.

POSITIONS

Brillouin Consulting
Managing Engineer

Seattle Area, WA

Mar 2026 - Present

Expert electrical engineer with a specialization in electrical forensics, failure analysis, and fire investigations.

Jensen Hughes
Senior Electrical Engineer, Forensics

Mountlake Terrace, WA

Jan 2018 - Feb 2026

Electrical Engineer specializing in electrical fire cause and origin, electrical system failures, electrical and electronic product analysis and testing, appliance fire and failure investigation, and engineering consulting on electrical system design and analysis.

Intertek (ETL)
Compliance Investigator

Plano, TX

Dec 2013 - June 2017

Electrical Engineer specializing in industrial equipment safety compliance and assisting manufacturers in meeting product safety code compliance. Analyzed power units, switch gears, and industrial control panels to ensure they met compliance standards.

HAAG Engineering
Hardware Engineer

Newark, NJ

June 2010 - May 2013

Electrical Engineer specializing in cause and effect of damage caused by residential and commercial fires, electrical values and equipment, grounding and bonding issues and appliance failures. Investigated shock and electrocutions, and lightning damage for claims.

ACADEMIC CREDENTIALS

University of Texas at Austin
B.S. Electrical Engineering

Austin, TX

2012

CONTINUING EDUCATION

University of Wisconsin
Foundations of Utility Vegetation Management

Stevens Point, WI

LICENSES & CERTIFICATIONS

- PE: TX (Electrical and Computer), No. 136558
- Certified Fire & Explosion Investigator (CFEI)
- National Association of Fire Investigators (NAFI), No. 17579-9642

PROFESSIONAL AFFILIATIONS

- IEEE Institute of Electrical and Electronics Engineers (member)
- NAFI National Association of Fire Investigators