

St. Louis

154 Hughes Lane St. Charles, MO 63301

T 636.896.9995
F 636.896.9695

CURRICULUM VITAE OF DANIEL J. SOVAR, P.E.

July 2024

I. General Information

A. Position Senior Mechanical Engineer

Semke Forensic 154 Hughes Lane St. Charles, Missouri Telephone: 636-896-9995

II. <u>Professional Summary</u>

A. Education: Bachelor of Science

Mechanical Engineering

Washington University St. Louis

St. Louis, Missouri

1992

Bachelor of Science Engineering Science

Minor Chemistry, Mathematics

Baker University Baldwin City, Kansas

1992

Rosary High School St. Louis, Missouri

1987



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B. Experience:

January 2020 to Present

Position: Senior Mechanical Engineer

Semke Forensic 154 Hughes Lane St. Charles, Missouri

Responsible for mechanical engineering projects with emphasis in fuel-fired equipment, mechanical design analysis, fire suppression systems.

April 2012 to January 2020

Position: Mechanical Engineer

Semke Forensic 154 Hughes Lane St. Charles, Missouri

Responsible for mechanical engineering projects with emphasis in fuel-fired equipment, mechanical design analysis, fire suppression systems.

January 2009 to April 2012

Position: Project Design Engineer

Star Manufacturing St. Louis, Missouri

Responsible for design of gas fired and electrical commercial cooking equipment for the Lang brand. In charge of projects from design concept until first production. Projects included development of new griddles, ranges, and gas hot plates.

March 2008 to November 2008 Position: Project Engineer

Battery Handling Systems

St. Louis, Missouri

Responsible for assisting with design of CE certified battery handling machinery.

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January 2007 to February 2008

Position: Project Design Engineer

Star Manufacturing St. Louis, Missouri

Responsible for design and implementation of Lang branded commercial cooking equipment. Projects included design, modification, and cost reduction of griddles, ranges, ovens, and broilers.

June 1999 to January 2007

Position: Design Engineer

Empire Comfort Systems

Belleville, IL

Responsible for design of gas fireplaces and gas BBQ grills. Responsible for project design from concept to first production. Projects included design of vent free fireplaces, direct vent fireplaces, and outdoor gas grills. Responsible for design and setup of NOx test system and hood.

June 1997 to June 1999

Position: Design Engineer

Hussmann Corporation Bridgeton, Missouri

Responsible for design, cost reduction, and engineering support of medium temperature Impact refrigerated display cases.

November 1993 to June 1997

Position: Design Engineer

Alco Controls

Maryland Heights, Missouri

Responsible for new products, cost reduction, and maintenance engineering for system protectors and regulator product lines.



Professional Resume Daniel J. Sovar

III. Seminars and Technical Courses Attended

- 1993 ProEngineer Basic/Advanced Training
- 2002 UL & Gas Consultants Gas Fired Heating Equipment Seminar
- 2008 Adobe Indesign Training
- 2012 Fire & Arson Conference, IAAI, Illinois Chapter, Fairview Heights, Illinois
- 2012 Advanced Insurance Seminar, NSPII, Missouri Chapter, St. Louis, Missouri
- 2012 Fire & Arson Conference, IAAI, Illinois Chapter, Champaign, Illinois
- 2012 Investigating Solid Fuel-Burning Appliances Fires, Fire Finding, Benton Harbor, Michigan
- 2012 Investigation of Gas and Electric Appliance Fires, Fire Findings, Benton Harbor, Michigan
- 2013 Fire & Arson Conference, IAAI, Illinois Chapter, Fairview Heights, Illinois
- 2013 Gas Explosions Webinar, NASP
- 2013 Fire & Arson Conference, IAAI, Missouri Chapter, Lake Ozark, Missouri
- 2014 Fire & Arson Conference, IAAI, Missouri Chapter, Lake Ozark, Missouri
- 2015 Fire & Arson Conference, IAAI, Illinois Chapter, Fairview Heights, Illinois
- 2015 Fire & Arson Conference, IAAI, Missouri Chapter, Lake Ozark, Missouri
- 2015 National Propane Gas Association Certified Employee Training Program, 1.0 Basic Principles and Practices
- 2016 IAAI-IL Buxton-Mazzone
- 2016 Fire & Arson Conference, IAAI, Missouri Chapter, Lake Ozark, Missouri
- 2017 Fire & Arson Conference, IAAI, Missouri Chapter, Springfield, Missouri
- 2018 Missouri Propane Gas Association Training Program, Basic Principles and Practices
- 2018 Fire & Arson Conference, IAAI, Illinois Chapter, Swansea, Illinois
- 2018 Fire & Arson Conference, IAAI, Missouri Chapter, Springfield, Missouri
- 2019 Fire & Arson Conference, IAAI, Illinois Chapter, Caseyville, Illinois
- 2019 Fire & Arson Conference, IAAI, Missouri Chapter, Springfield, Missouri
- 2019 Commercial Plumbing with PEX, AEC Daily Corporation
- 2020 Ventilation and IAQ, ASHRAE Learning Institute
- 2020 Achieving Fire Suppression and Safety with Standpipe Systems, AEC Daily Corporation
- 2020 Fire-Safe Building Design: An Introduction to Automatic Sprinkler Systems, AEC Daily Corporation
- 2020 HVAC for Home, Failure & Damage Analysis, Inc.
- 2021 Fire & Arson Conference, IAAI, Missouri Chapter, Springfield, Missouri
- 2021 Fire & Arson Conference, IAAI, Illinois Chapter, Caseyville, Illinois
- 2022 Fire & Arson Conference, IAAI, Missouri Chapter, Springfield, Missouri



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IV. <u>Professional Affiliations</u>

International Association of Arson Investigators (IAAI)

Illinois Chapter of the International Association of Arson Investigators (ILIAAI) Missouri Chapter of the International Association of Arson Investigators (MOIAAI) National Fire Protection Association (NFPA)

American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE)

American Society of Plumbing Engineers (ASPE)

V. Patents

US Patent 6945160 for Outdoor Cooker and Smoker Apparatus US Patent 20130206128 A1 for "Instant On" Gas Burner

VI. Civic Involvement

USA Hockey Certified Coach, Level 3 Coach Twin Bridges Lightning – 2004-2007, 2009-2012 Youth Minister & Moderator – St. Ferdinand Church 1999-2016

VII. Professional Registration

Registered Professional Engineer in the States of Missouri, Illinois, and Kansas

VIII. Courses Instructed

- 2014 Shelter Insurance, Columbia, Missouri Mechanical Evaluations
- 2014 Shelter Insurance, Columbia, Missouri Mechanical Evaluations: Sprinkler Systems, Plumbing Systems, HVAC Equipment
- 2016 Haren Laughlin, Lenexa, Kansas Building Fire Suppression System Basics
- 2017 IAAI Illinois Buxton/Mazzone Southern Zone Training Conference, Swansea, Illinois *Mechanical Evaluations*
- 2022 IAAI Missouri Building and Kitchen Fire Suppression Systems, Gas Systems and Appliances

IX. Publications

Sovar, D. J. (2016). Fire Suppression Systems – Determining Liability. *Subrogator, Spring/Summer 2016*, 110-114.