

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

August 2017

**I. General Information**

A. Position Senior Mechanical Engineer  
Semke Forensic  
154 Hughes Lane  
St. Charles, Missouri  
Telephone: 636-896-9995

**II. Professional Summary**

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



B. Experience:

April 2012 to Present

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.

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.

**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

**IV. Professional Affiliations**

International Association of Arson Investigators (IAAI)  
National Fire Protection Association (NFPA)  
American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE)

**V. Patents**

US Patent 6945160 for Outdoor Cooker and Smoker Apparatus  
US Patent application 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 State of Missouri  
Registered Professional Engineer in the State of Illinois

**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*