

Corey J. Stewart, P.Eng., CFEI | Forensics Engineer
P. Eng.

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Professional Summary:



Corey Stewart is a mechanical engineer whose career started in consulting and transitioned into the manufacturing sector. During his time in consulting, he worked on a variety of projects, notably several dry fire sprinkler system replacements in health care settings, where he was involved in the inspection, data analysis, code review, and quoting process. Corey also assisted in the inspection and certification of dozens of lifting devices including cranes, boom trucks, and jib cranes. In manufacturing Corey was employed in a high mix, low volume fabrication shop. His responsibilities included checking client designs for manufacturability, developing flat patterns for sheet metal parts, converting customer provided files into formats useable by the fabrication equipment, creating part nests and NC code, and ensuring timely transition through the shop with minimal material waste.

Project Experience:

Consulting

- Inspect dry fire sprinkler systems for material loss in pipes using ultrasonic thickness gauge and create CAD drawings of the system using field measurements. Using this data to make recommendations for partial or full replacement of the system. Checking the system to the latest NFPA 13 standard. This includes performing hydraulic calculations and ensuring adequate coverage area.
- Inspection of lifting equipment including cranes, boom trucks, and jib cranes. This includes checking welds, checking that equipment is in working order, out rigger functionality, swing test, and hold test.

Manufacturing

- Responsible for fabrication of packaged boiler system sheet metal components, including creating flat patterns and geometry files for dozens of parts. Adding etch marks to speed fit-up and producing a final product that meets tolerance requirements.
- Work with quality department to identify the root cause of non conformance issues.
- work with press brake and laser operators to run test parts to ensure high quality and consistent production runs.

Career Development:

<u>Certified Solid Works Professional</u> Javelin Technologies	August 10, 2018
<u>Project Management Essentials</u> Dalhousie University	April 28-30, 2014
<u>Structural Design for Non-Structural Engineers</u> Dalhousie University	March 4-7, 2013
<u>Industrial Ventilation Design</u> Dalhousie University	April 23-24, 2009

IAAI CFITrainer.net Training Modules

August 2022 – September 2022

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| <ul style="list-style-type: none"> • Charting Your Career Path In Fire Investigation (8/29/2022) • Critical Evaluation and Testing of Commonly Reported Accidental Causes (8/31/2022) • Ethics and the Fire Investigator (9/02/2022) • Effective Investigation and Testimony (9/02/2022) • Documenting the Event (9/02/2022) | <ul style="list-style-type: none"> • Fire Chemistry (9/07/2022) • Explosion Dynamics (9/07/2022) • Fire Flow Analysis (9/08/2022) • Fire Investigator Scene Safety (9/09/2022) • Fundamentals of Interviewing (9/09/2022) • Understanding Undetermined (9/12/2022) |
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Professional Development Webinars

<u>Refridgeration and Chillers</u> Atlabach Consulting	November 28, 2020
<u>Boilers and Hydronic Heating Seminar</u> Atlabach Consulting	October 25, 2020
<u>Heat Exchangers</u> Atlabach Consulting	September 12, 2020
<u>Boiler Condensate Return Basics</u> Cleaver-Brooks	February 24, 2016
<u>How to Read a Pump Curve</u> Grundfos	January 28, 2016
Forced Draft Boiler Flue Gas Venting Solutions to Typical Problems Atlabach ConsultingCleaver-Brooks	January 27, 2016

Boiler Steam Supply Piping Basics
Cleaver-Brooks

November 18, 2015

NOx Reduction: Flue Gas Recirculation vs Selective Catalytic Reduction
Cleaver-Brooks

October 28, 2015

Professional Experience:

Forensics Engineer
EFIGlobal Canada

August 2022 – Present

Manufacturing Engineer
Chrima Metal Fabrication

September 2016 – July 2022

Design Engineer
Ideal Engineering

June 2012 – May 2015

Engineer Summer Student
Ideal Engineering

Summers 2006 to 2011

Education:

- Bachelor of Engineering, Dalhousie University, Halifax, Nova Scotia (Mechanical Engineering)
- Diploma in Engineering, St Francis Xavier University, Antigonish, Nova Scotia

Affiliations:

- Engineers Nova Scotia (formerly APENS – Association of Professional Engineers of Nova Scotia)
- Professional Engineers Ontario