

Collision  
Reconstruction

Personal Injury

Electrical

Mechanical

Metallurgical

Civil & Structural

Fire & Explosion

Structural  
Reconstruction

## **Nathan M. Hirst, B.A.Sc., E.I.T.**

416-491-2525 (Ext. 25)  
nathan.hirst@arconforensics.com

### **EXECUTIVE SUMMARY**

Nathan is a member of the Metallurgical & Mechanical Engineering group at Arcon. He obtained his undergraduate degree in Materials Science and Engineering from the University of Toronto where he also completed a specialized *Certificate in Forensic Engineering*. He is registered as an Engineering Intern with the Professional Engineers of Ontario. Nathan has led a variety of investigations in the areas of piping and plumbing product failures and routinely supports senior engineers in their work on complex failure mechanisms.

### **AREAS OF SPECIALIZED EXPERTISE**

- *Material failure analysis and fractography*
- *Pipe, plumbing and pressure vessel failures*
- *Sprinkler and fire protection component analysis*

### **EDUCATION**

- B.A.Sc., Materials Science and Engineering (2018), University of Toronto

### **QUALIFICATIONS & CERTIFICATIONS**

- *Certificate in Forensic Engineering (2018), University of Toronto*

### **PROFESSIONAL ASSOCIATIONS**

- *Ontario Society of Professional Engineers*
- *Professional Engineers of Ontario*

### **PROFESSIONAL EXPERIENCE**

***Junior Forensic Engineer***, Arcon Forensic Engineers  
(April 2019 – Present)

Responsible for leading and assisting with investigations involving equipment failures, plumbing failures and product failure relating to personal injury. Develops and delivers origin and cause conclusions from analysis of evidence and application of scientific methods and engineering principles.

***Engineering Intern, Application***, AGFA Graphics

(August 2016 - August 2017)

Produced and executed ISO-based lab procedures to optimize equipment performance for wide-format inkjet printer engines and substrates. Delivered technical reports and presentations on failure analysis initiatives and field tests for equipment, media and ink. Developed an automated system to convert qualitative colour tests results to quantitative rating for performance comparison.

352 Consumers Rd.  
Toronto, ON  
M2J 1P8

416.491.2525  
888.272.6671