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Njegos Bijelic, M.A.Sc., CFEI

Project Consultant, Fire Investigations

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Education

UNIVERSITY OF WATERLOO

2015

Masters of Applied Science, Mechanical Engineering – Fire Safety

McMASTER UNIVERSITY

2012

Bachelor of Technology, Manufacturing Engineering

CONESTOGA COLLEGE

2009

Mechanical Engineering Technology, Design and Analysis

Experience

ROAR ENGINEERING

Project Consultant, Fire Investigations

2021 – PRESENT

ENVISTA FORENSICS

Project Consultant

2018 - 2021

JENSEN HUGHES

Project Consultant

2014 - 2018

UNIVERSITY OF WATERLOO

Research Assistant

2012 - 2014

Professional Associations and Certifications

- Certified Fire and Explosion Investigator (CFEI), NAFI
- Wood Energy Transfer Technology (WETT)

- **Canadian Association of Fire Investigators (CAFI)**
- **National Association of Fire Investigators (NAFI)**
- **Society of Fire Protection Engineers, Southern Ontario Chapter (SFPE, SOC)**
- **WETT: Member**
- **International Association of Arson Investigators (IAAI, Ontario Chapter)**

Core Expertise

- **Structural Fire Origin and Cause Determination**
- **Vehicle Fires**
- **Fire Suppression Systems – Dry Chemical, CO2 and Sprinklers**
- **Building Fire Alarm Systems**
- **Solid Fuel Burning Systems – WETT Certified**
- **Fire Modelling – FDS and CFAST**
- **Fire Protection Design – Building Egress, Fire Suppression, and Fire Alarm**
- **Fire Testing – Mock-up burns**
- **Building Code Consulting – OBC, OFC and NFPA**

Continuing Education

- **Wood Energy Transfer Technology (WETT) Courses - Code Compliance, Wood Burning Systems, Site Basic Inspections**
- **Fire Findings – Investigation of Gas and Electric Appliance Fires Course**
- **NAFI – NFPA 921 Fire and Explosion Training Seminar**
- **Fire Forensic Training – Jensen Hughes Internal Training Seminar**
- **CFI Trainer – Arc Mapping Basics, The Impact of Ventilation in Building Structures on Fire Development, Digital Photography, Documenting the Event, Explosion Dynamics, Fire Chemistry, Introduction to Evidence, Fire Investigator Scene Safety and The Scientific Method of Fire and Explosion Investigation**

Publications and Presentations

- **Electric Vehicle Fires, Fire Case Reviews, and New Investigation Technologies** – Presentation at the Society of Fire Protection Engineers, Southern Ontario Chapter conference, April 2017 (Toronto, Ontario)
- **Commissioning of a Modular Steiner Tunnel** – Thesis presentation at the University of Waterloo, August 2015 (Waterloo, Ontario)
- **Configuration and Scalability of the ASTM E84 Steiner Tunnel Test** – Poster Viewing Session at the Annual NFPA Conference & Expo, November 2013 (Chicago, Illinois)
- **Evaluation of the Flammability and Fire Performance of Automotive Polyurethane Materials** – Auto21 Poster Competition, May 2013 (Niagara Falls, Ontario)

