CURRICULUM VITAE

Maksym Tykhomyrov, CFEI, CVFI, P.Eng. *(he/him)*

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EXPERT SUMMARY

Mr. Maksym Tykhomyrov is a Senior Associate with the Fire & Electrical Investigation Group at 30 Forensic Engineering. He graduated from The East Ukrainian National University and passed the FESTI Certified Fire and Explosion Investigator program in 2021. Since beginning his work as a forensic investigator in 2018, Maksym has been involved in more than 200 electrical and fire investigations, primarily involving electrical failures. Maksym is a Certified Fire and Explosion Investigator (CFEI), a Certified Vehicle Fire Investigator (CVFI), and a licensed Professional Engineer in the provinces of Ontario, British Columbia, and Alberta.

SPECIALIZED PROFESSIONAL COMPETENCIES

- Residential and Complex Industrial Electrical Fire Loss Investigation
- Root Cause Failure Analysis of Electric and Electronic Assemblies, Appliances and Installations
- Electrical systems design and Installation
- Electrical Project Supervision & Organization
- Risk Mitigation Audits, Remediation Assessment

ACADEMIC BACKGROUND

Master's Degree in Electrical Engineering – Electrical Machines and Utilities, The East Ukrainian National University, Ukraine, 2002

Diploma – Wind Power Development and Use, Life Academy/Royal Institute of Technology (KTH), Sweden, 2013

ADDITIONAL COURSES

- NFPA 921. Certified Fire & Explosion Investigation program
- Working at Heights (ID# WAH-34608)
- RPAS Pilot
- Capacity Works – Managing Complex Projects
- Vehicle Fire Investigation Training Program

PROFESSIONAL EXPERIENCE

30 Forensic Engineering

Senior Associate, Fire & Electrical Investigation
2024 – Present, Toronto, ON

- Investigation and reporting on forensic engineering matters including:
  - Electrical distribution failures and fires
  - Electrical transformers failures and fires
  - Residential structure fires
  - Large commercial property loss
  - Photovoltaic installations failures and fire investigations
  - Photovoltaic installations commissioning experience
  - Project management failures
  - Industrial production and operations
  - Utility operations and maintenance practices
  - Small motor and appliance failures

Associate, Fire & Electrical Investigation
2022 – 2024, Toronto, ON

Arcon Forensic Engineers Ltd.

Electrical Engineer
2018 – 2022, Toronto, ON

- Investigated the causes of failures within a variety of electrical equipment and installations
- Inspected, tested, and analyzed electrical components and motor malfunctions
- Assessed electrical failures in industrial, commercial, and residential losses
- Prepared expert reports and conclusions based on on-site inspections, witness interviews, research of required information, including Codes, Regulations and Standards
- Ensured clear and thorough communication of investigations' findings to the clients
- Managed relevant projects to complete the assigned tasks in a timely and cost-efficient manner

German International Development Agency (GIZ)

Technical Advisor
2016 – 2018, Ukraine

- Developed and implemented strategies for energy efficiency measures in 15 hospitals, resulting in a 10% reduction of related hospital energy consumption
- Organized and coordinated energy efficiency pilot projects/activities, workshops, networking events, contributed to publications and reports
- Provided professional technical advice and support to local municipalities and relevant ministries

Holding Company Energoset Ltd.

Manager, Asset Management
2014 – 2016, Ukraine

- Coordinated and managed multiple distribution power system projects
- Developed, enhanced, and implemented energy efficiency projects and strategies, which enabled reduction of technical losses by 5%
- Provided engineering expertise throughout development, budgeting, construction, commissioning, and operation of the company's assets
- Elaborated long-term investment strategies of the grid modernization
- Performed engineering studies and analysis related to a power grid
- Elaborated business plans: photovoltaic systems (utility-scale) and small hydropower systems
- Developed feasibility studies for the residential solar PV stations
- Provided professional technical advice and support to local municipalities and relevant ministries

Lugansk Energy Interconnection Ltd.

Manager, Distribution Control Centre
2010 – 2014, Ukraine

- Identified bounds of operations and defined critical parameters in the distribution power system
- Coordinated planned maintenance and construction activities, equipment outages, outage schedules and testing that affected the distribution grid
- Carried out continued analysis of the distribution power system through the computing of the grid model
- Performed studies: load transfer, planned outages, switching plans
- Prepared recommendations for the inventory of major equipment to meet the demands for new development, replacement, and emergencies
- Provided technical advice, support, and guidance to other departments
- Analyzed malfunction and failures in performance and technical breakdowns; elaborated contingency plans to eliminate malfunctions, prepared reliability statistics and system deficiency reports
- Monitored the distribution system quality indicators
- Analyzed outages and prepared investigation reports
- Provided technical criteria for the connections of the new customers or DERs
- Performed site inspections, conducted training on preventive maintenance for relevant staff and managed multiple distribution power system projects
- Developed, enhanced, and implemented energy efficiency projects and strategies, which enabled reduction of technical losses by 5%

Deputy Manager (Supervisor), Distribution Control Centre
2008 – 2010

Control Room Operator
2002 – 2008

Electrical Fitter
2002

PROFESSIONAL SOCIETIES AND ASSOCIATIONS

- Professional Engineers Ontario (PEO), Licensed Member
- Professional Engineers and Geoscientists of British Columbia (EGBC), Licensed Member
- Association of Professional Engineers and Geologists of Alberta (APEGA), Licensed Member
- National Association of Fire Investigators (NAFI), Member
- Certified Fire and Explosion Investigator (CFEI)
- Certified Vehicle Fire Investigator (CVFI)
- Ontario Society of Professional Engineers (OSPE)