CURRICULUM VITAE

Ivan Matijevic, M.A.Sc., P.Eng., DFE

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EXPERT SUMMARY

Mr. Matijevic is a Technical Director with the Materials & Product Failure analysis group at 30 Forensic Engineering. Ivan has over 10 years of industry experience in Failure Analysis and Materials Laboratory roles, serving a diverse array of stakeholders ranging from Aerospace primes to law firms. He holds a Masters of Applied Science from the University of Toronto Material Science and Engineering department. At 30 Forensic Engineering, Ivan investigates all manner of product, system, and equipment failures.

SPECIALIZED PROFESSIONAL COMPETENCIES

- Failure Analysis
- Material Testing and Characterization
- Fractography and Fracture Surface Analysis
- Metallurgical Analysis of Material Microstructures and Mechanical Properties
- Corrosion Characterization and Assessment
- Characterization and Assessment of Wear in Components
- Analysis of Welded, Brazed, and Soldered Connections
- Assessment of Specifications and Quality Systems

ACADEMIC BACKGROUND

Master of Applied Science (Material Science and Engineering), University of Toronto, 2016

Bachelor of Applied Science (Material Science and Engineering), University of Toronto, 2014

ADDITIONAL COURSES

Introduction to Welding Processes, Inspection, and Metallurgy using API RP 577, Certificate 2021, CASTI

Ivan Matijevic, M.A.Sc., P.Eng., DFE

PROFESSIONAL EXPERIENCE

30 Forensic Engineering

Technical Director, Materials & Product Failure
2025 – Present, Toronto, ON

- Lead investigations in materials related failures, including corrosion, mechanical, and cracking failures.
- Characterize material failure mechanisms, including fractography, metallography, plastic and polymer failures, piping and plumbing investigations.
- Prepare technical reports for clients summarizing the findings of investigations.

FALCONMET Engineering and Laboratories Inc.

Technical Director
2023 – 2025, Toronto, Ontario

- Prepared over 1000 laboratory test and failure analysis reports for a wide variety of clients such as insurance, aerospace primes and suppliers, and manufacturing facilities.
- Investigated failure cases as a forensic engineer, dealing with topics ranging from corrosion to tampering.
- Hosted over 100 joint examinations and provided materials expertise to assist attending experts.
- Delivered expert witness testimony in the Superior Courts of Ontario and Quebec.
- Created business cases for and executed capital expenditures related to new equipment and test capability.
- Ensured continuous improvement of the Quality Assurance system and related procedures.
- Enabled compliance with regulatory requirements through performing self and external Quality Audits.
- Developed and implemented new laboratory procedures to serve changing client needs.

Manager – Failure Analysis and Materials Engineering
2020 – 2023, Toronto, Ontario

Senior Metallurgist
2016 – 2018, Toronto, Ontario

Metallurgist
2016 – 2018, Toronto, Ontario

Celestica Inc.

Material Science Lab Engineer
2012-2013, Toronto, Ontario

- Performed Failure Analysis of electronic components and assemblies.
- Supporting a production environment through laboratory testing.

PROFESSIONAL SOCIETIES AND ASSOCIATIONS

- Professional Engineers of Ontario
- National Academy of Forensic Engineers, Member
- National Society of Professional Engineers
- A Society for Materials (ASM International)

COURT AND OTHER APPEARANCES

- Qualified as an expert witness in the Ontario Superior Court as an expert in metallurgical analysis and materials characterization.
- Qualified as an expert witness in the Quebec Superior Court as an expert in polymers failure analysis.

PUBLICATIONS AND ACADEMIC SPEAKING ENGAGEMENTS

- Delhaise, A. et al. (2020) Thermal Preconditioning and Restoration of Bismuth-Containing, Lead-Free solder Alloys. Journal of Electronic Materials.
- Matijevic, I. (2017) Characterization of the Solvus Transformation in Ternary and Quaternary Bismuth Containing Lead-Free Solder Alloys. University of Toronto Graduate Thesis.
- Matijevic, I. (2016) Characterization of Solvus in Ternary and Quaternary Bismuth Containing Solder Alloys. International Conference on Soldering and Reliability.