Eric Kassee B.Eng

905-442-9404 | erickassee@gmail.com

OBJECTIVE

To be an active member in an enterprising organization by building upon and applying engineering skills and methods, in the planning and execution of projects, while working towards obtaining Professional Engineering licensure

EDUCATION

- Bachelor of Materials Engineering and Society, McMaster University, Hamilton ON, 2014
- P. Eng Licence Eligibility – April 2019

SKILLS PROFILE

- Industrial research and development expertise involving many types of alloys, metallurgical processes, and failure / root cause analysis
- Industrial R&D and process engineering experience in polymer science, blown film extrusion lines, production of polymer films
- Working knowledge with a multitude of standard industrial materials property testing equipment (i.e. hardness, impact, tensile strength, XRD, SEM, GD&T, microscopy, etc.)
- Casting, machining and heat treating experience with a wide range of alloys for industrial applications
- Chemical laboratory analysis and testing experience in a high precision industry (i.e. precious metals and industrial alloys), using standard industry techniques
- Understanding of polymer science applications, production methods, testing, development, and product/process optimization
- Working knowledge of best practices for health and safety, Kaizen principles, ISO auditing
- Adaptable to a variety of work environments, including workshops, production floors, laboratories, and office setting

EMPLOYMENT HISTORY

Product Development Engineer- Transcontinental Packaging September 2018 —Present
Whitby, Ontario

- Product Development Engineer for the Research and Development Department
- Designed plastic films to meet the product specifications of customers, by understanding and optimizing properties specific their end use applications.
- Developed plastic film blends to run on blown film extrusion lines, to enhance the quality of the product, meet specific physical properties, and to maximize output and runnability on our existing extrusion equipment.
- Troubleshooting of defective material to determine its root causes, determine what part of our processes and machinery caused the problem, and to propose and implement solutions to eliminate this in future products.
- Ran R&D trials on production equipment, which involves planning and logistics to minimize production down time, and real time testing and adjustments to process parameters to achieve desired results

Metallurgist, Umicore Precious Metals Canada **April 2015 — September 2018**
Markham, Ontario

- Metallurgist for the Technical Services (R&D) Department
- Developed, tested, and implemented new production methods and process improvements to enhance process reliability and the quality of our final products
- Hands on experience with many metallurgical casting techniques and machines, applied to a variety of precious metal and other alloys including platinum, gold, silver, palladium, nickel, copper, etc...
- Developed new alloys and modified existing compositions to achieve desired physical properties, increase overall quality, and to accommodate marketplace demands
- Analyzed returned defective material to determine root causes of failure, and performed special analysis requests for customers
- Performed chemical assays and analysis of metallic samples using standard industrial techniques
- Conducted audits of entire facility for employee health and safety, 5S, ISO accreditation

Trades Assistant, McMaster University **May-September, 2011, 2012, 2013**
Hamilton, Ontario

- Assisted licensed plumbers, electricians, HVAC technicians, and carpenters in the Housing and Conference services department, in general maintenance of campus buildings
- Learned on the job about the operations of many building systems, and assisted technicians with troubleshooting and repairs
- Completed building inspections both independently and as supervisor of a small team of students, and repaired/reported all damage