

Drew Tomchyshyn
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April 3, 2018

Stephanie d'Obrenan
-30- Forensic Engineering
40 University Avenue, Suite 800
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I am a recent graduate from the Department of Materials Science & Engineering at University of Toronto, having become fascinated with the world of forensic engineering during my undergraduate program. I would love to be considered for the Junior Associate position in the Collision Reconstruction group.

At U of T, I was able to study with Professor Doug Perovic who introduced various areas of forensic engineering such as materials failure, fire investigation, product liability and accident reconstruction while highlighting the framework to approach a forensic investigation. What interested me was the diverse and dynamic environment where engineering expertise can be applied without becoming stale, as it were. The term project which I completed for this course allowed me to become an expert on a particular biomedical device, the materials involved and to familiarize myself with product liability law to come to a conclusion using fault tree and failure mode and effects analyses among other approaches. I learned that I am most engaged when exposed to many areas of a project – to see the “big picture” allows me to take pride in my work and know that I made a valuable impact.

It was this interest that led me to seek Professor Perovic as an advisor for my Master of Engineering research project which evolved into a novel technique in electron microscopy to study bacterial adhesion. While the project itself deviated from a failure analysis study, it provided great experience in project management, research skills and technical skills with electron microscopes.

My time working in an interior design office, however brief, showed me that I am capable of succeeding in an industry in which I had little practical experience. Without formal training in construction and design, I was quickly entrusted with the start-up and monitoring of the progress of a multi-million-dollar renovation project including coordinating sub-trades and daily site visits while referring to technical drawings and project management tools.

Having held part-time and full-time jobs in the retail and service industry for the majority of my life, I am comfortable communicating with many personality types – both clients/customers and team members.

The unique combination of consulting, engineering, failure analysis and ongoing professional development required by a career in forensic engineering is what drew me to the field and I believe my experiences professionally and academically have prepared me to excel in such an environment.

Thank you for considering this application and I look forward to hearing from you in the near future.

Drew Tomchyshyn

Drew Tomchyshyn, EIT

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Education

University of Toronto

Awarded in 2017

Master of Engineering

Department of Materials Science & Engineering

Characterization of bacterial adhesion on titanium surfaces

Relevant courses include Forensic Engineering, Electron Microscopic Techniques

University of Toronto

Awarded in 2016

Bachelor of Applied Science

Department of Materials Science & Engineering

Investigation of self-assembled hydrophobic surfaces for limiting bacterial adhesion

Bioengineering Minor, Engineering Business Minor

University of Manitoba

Awarded in 2011

Bachelor of Science, General (Focus: Chemistry, Biology)

Relevant & Professional Experience

Research Assistant, University of Toronto

May 2016 – August 2016

- Application of bio-inspired materials to modify biomedical device surfaces reducing bacterial adhesion
- Involved in project design, fabrication and characterization techniques
- Material systems and fabrication techniques were explored to optimize device design

Project Management Assistant (Interior Design), HSA Design Inc. (Winnipeg)

March 2012 – July 2012

- Reported directly to president, designers and CAD technicians
- Tasked with monitoring construction and interior design projects
- Provided ad hoc aide to interior designers and CAD technicians including presentation preparation, benchmarking, sourcing and client meeting arrangements
- Coordinated project start-up meetings and subtrade schedules for office building lobby renovation; monitored progress via daily site visits
- Assisted in preliminary budget and logistics planning for multimillion dollar corporate space renovation
- Maintained correspondence between clients for 10 interior design/construction projects

Teaching Assistant, University of Manitoba

September 2010 – April 2011

- Tutorial teaching assistant for two introductory chemistry courses
- Guided first year students through assigned problems and graded term material
- Invigilated midterm and final exams

Leadership

Treasurer & Logistics, Materials Industry Club, University of Toronto July 2016 – Present

- Responsible for budget planning, funding applications and event coordination

4th Year Rep & Director of Communications, MSE Club, University of Toronto August 2014 – April 2015

- Attend weekly student council meetings to coordinate student experience events, community involvement, fundraisers and discuss budget allocation
 - Represent fourth year class in academic and social matters
 - Composed and distributed periodical emails to undergraduate student body relaying MSE Club news
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Employment

Shift Supervisor/Key-holder, Starbucks Coffee Co. July 2013 – Present

- Lead team to ensure superior customer connections are made and that corporate directives, quality assurance, health/safety standards, are being executed by all employees
- Monitor business metrics and transactions including preparation of deposits
- Interact with customers, providing high quality products and customer service

Inventory Specialist/Key-holder, Le Chateau (Retail) (Winnipeg, MB) May 2010 – February 2012

- Worked as head of operations team responsible for maintaining store inventory and training staff on policies and procedures
- Devised new inventory management system during renovation/transition period

Key-holder, The Explore Store (Retail) (Winnipeg, MB) December 2007 – April 2010

- Performed unsupervised merchandising/marketing tasks in response to customer feedback
 - Cash handling duties
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Continued Education and Further Interests:

- Currently registered EIT (PEO)
- Project Management Institute (PMI) Certified Associate in Project Management (CAPM) certification in progress
- Professional Society Member: Material Advantage (ASM International, ACerS, AIST, TMS); Surface Mount Technology Association