

WILL BEATTIE

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An engineer with mechanical and electrical expertise, proven capabilities in R&D, instrumentation and automation and excellent communication, project management and leadership skills, seeking a role in a growing technology organization.

EDUCATION:

- M.A.Sc., Mechanical Engineering, UBC, 2013
- B.Sc.E., Engineering Physics, Mechanical Option (1st Class Honours), Queen's University, 2010
- University of Toronto Schools, 2006

EXPERIENCE:

MULTISCALE DESIGN LAB

Vancouver, BC

The MDL applies design expertise from mechanical and electrical engineering to develop enabling technologies in medicine and biology.

Research Engineer

Sept 2010 – Dec 2013

Designed, prototyped and tested an innovative biomedical device for separating tumor cells from blood

- Co-invented and co-wrote US Patent 61/434,344 (pending) for the separation mechanism
- Automated the operation, data acquisition and analysis of laboratory experiments using fluidic controls, microcontroller systems and digital image processing
- Produced three first-author publications (*Lab On A Chip* 2014, *μTAS* 2011 and 2013)

UNIVERSITY OF BRITISH COLUMBIA

Vancouver, BC

Sessional Lecturer

Sept – Dec 2013

Instructed MECH 368: Measurement and Instrumentation, a core 3rd year undergraduate course

- Achieved 4.7/5.0 on overall quality based on a student survey, 5.0/5.0 on ratemyprofessors.com
- Delivered lectures to 95 undergraduates covering sensors, analog signal processing, electronics and readout using event-driven programming and motor control
- Developed new laboratory content using Visual C# to enable serial communications between microcontrollers and computers

OUTLAND REFORESTATION

Timmins, Ontario

Outland Reforestation is a leading provider of silviculture services

Crew Boss

May-Jul 2010

Led the hiring and day-to-day operations of a 16-person tree planting team

- Managed a \$500k reforestation project in remote worksites, meeting production and quality targets
- Promoted to this position after three summers employed as a tree planter

TECHNICAL SKILLS:

Drafting and design: *Inventor, SolidEdge, AUTOCAD*, Simulation: *COMSOL Multiphysics, Fluent, SPICE*

Programming: *MATLAB, Python, VB, C#, C for microcontrollers (MSP, Arduino)*

Biological lab skills: *cell handling and culture, fluorescence microscopy, bulk image processing*

SELECT COURSEWORK:

Sensors and Actuators, Biofluids, Biophysics, Fluid Mechanics, Mechatronics, Automatic Controls

OTHER:

- Competed internationally in alpine ski racing
- Accomplished rock climber and mountaineer