

February 24, 2014

Dear Sir or Madam,

I am submitting an application for the Engineering Instructional Support Tutor position. I was informed about this position by Dr. Carol Hulls, and am very interested in the position.

I am a fourth year Mechatronics Engineering student, graduating this year. I have worked as a WEEF Teaching Assistant for the GENE 121 course twice on co-op terms, and found that to be very enjoyable. As a student at the University of Waterloo, I have participated in many activities to help first year students, including resume critiques run by the Engineering Society, and being an orientation week leader.

I look forward to hearing from you about this opportunity. I can be reached via e-mail at sbkraeme@uwaterloo.ca, or by phone at 226-606-4052.

Thank you for your time.

Sincerely,

Stephen Kraemer

Stephen Kraemer

github.com/straemer
(226) 606-4052
sbkraeme@uwaterloo.ca

SUMMARY OF QUALIFICATIONS

- Expert C/C++ programmer, familiar with python, RobotC, Java, C#, and Matlab.
- Embedded systems: Arduino, Lego Mindstorms, Raspberry Pi.
- Proficient GNU/Linux User.
- Experience using standard office software as well as LaTeX.

WORK EXPERIENCE

Oracle, Endeca Server Team, *Boston, MA*
Software Developer
Apr-Aug 2013

- Worked on performance and scaling team of an analytical database, coding in C++.
- Increased query performance by up to 10% by finding and fixing a bug in cache eviction algorithm.

Autodesk, Alias Team, *Toronto, ON*
Software Developer
Aug-Dec 2012

- Developed software for a 3D modelling program.
- Completely redesigned the printing work-flow, integrating Qt into a product that did not previously use it.

Avvasi Inc, Packet Processing Team, *Waterloo, ON*
Software Developer
Jan-Apr 2012

- Worked on product to analyze and improve video streaming over a large-scale network.
- Ported RTMP and RTSP parsers from an older product to a newer one using C++.

Netkeepers Markham, ON
Support Technician
May-Aug 2011

- Assisted customers remotely to troubleshoot computer-related issues.

University of Waterloo *Waterloo, ON*
Teaching Assistant and Lab Developer (GENE 121)
Jan-Apr, Sept-Dec 2010

- Helped create labs using LEGO NXT and Arduino robots newly added to the course.
- Ran extra-help sessions before final exams; created a practice final for students.

EDUCATION

Candidate for Bachelor of Applied Science
Mechatronics Engineering
2009 - 2014 (Expected)
University of Waterloo, ON

Fourth Year Design Project - www.casesensitive.ca

- Designing a “smart” suitcase that tracks its position, detects mishandling, and weighs itself; reporting this information to a smart-phone.
- Software lead in a team of four.
- Coding in C++ and Java, using an Arduino and creating an app on Android.

INTERESTS

- Member of University of Waterloo Engineering Society
 - Volunteered at resume critiques for first year students.
 - Volunteered as an orientation week leader.