Joscelyn B. Stonis

45 Captain Pierce Rd, Scituate, MA 02066 **∙** (781) 733-7776 **∙** joscelyn.stonis@yahoo.com

**Availability begins June, 2016**

**Objective**

Design and develop software as a Java developer in a challenging and growing work environment

**Summary**

New Northeastern University graduate with 18 months co-op experience in software development, interested in multitiered applications using object oriented concepts in Java and on relational databases like SQL server.

**Technical Skills and Interests**

Languages: C, Java, Visual Basic, JavaScript, SQL, Apex (Salesforce), PHP, matlab HTML

Operating Systems: Windows XP through Win8.

Procedural Languages, MIPS Assembly language, object oriented design, real-time programming, LabView

Familiar with Opencv, OpenGL

**Employment Experience**

“Smart Walker” Capstone Project, Boston, MA September, 2015-April, 2016

Five other classmates and I planned and are currently implementing what we call a “smart walker.” We are installing sensors to all four legs of a walker for rehabilitation purposes, connecting to two transducers, that will then be processed with an Arduino and sent to our very own android application, to inform the user whether their weight distribution is close to equal or if they are leaning too much on one side, that will in hopes, speed up the rehabilitation process.

OpTerra Energy Services, Norwell, MA July, 2015-December, 2015

Working closely with the director of technology, I felt this was the most fulfilling co-op yet. I began with creating macros for their lighting audit tool for project engineers that would help automate their process of calculating total kWh savings and total cost savings as they enter existing fixtures and retrofits. I spent time learning Salesforce and the Apex language, and created custom objects. Later, I worked with the control engineers and automated the graphics, writing in Java in their Tridium software.

EdgeTech, Wareham, MA July, 2014-April, 2015

I worked closely with their only software engineer at that location and translated their “Calibration Tank” programs (from real-time to post-processing programming) which were written in BASIC, to C#, that could run on the company’s new Win 7 National Instruments computer. I spent some time learning the DOS commands to be able to debug these programs written in BASIC. I spent time learning serial and parallel port communication in C#. I am currently using these C# applications, and replicating them in LabView to communicate with all new National Instrument’s devices.

Bose Corporation, Framingham, Ma July-December 2013

Software Engineering CO-OP through Northeastern University

I created a Kinect for windows based program in visual studio 2012 C++ that would help acoustic engineers track

the location of an acoustic “dummy” in the car in order to make repeatable audio measurements. I had two different

methods. One approach used face detection in the toolkit for Windows Kinect. But, because there were many

versions of the acoustic dummy, this would not work consistently. My last approach that would work regardless of

the shape and color of the “dummy”, was to use object detection, after putting a colored circular sticker on it. I then

used the Hough transform, as well as color filtering, based on hue, saturation, and light values.

**Education**

Northeastern University, Boston, MA 2012-2016

Bachelor of Science in Computer Engineering

GPA: 3.31

Relevant Courses: Web Development, Robotics, Computer Graphics, Computer Architecture, Object-Oriented Design, Computer Networks

**Other Skills and Interests**

Figure skating, camping, running, reading, skiing.

**References will be furnished upon request**