**Evertz Work Term Report Rough Copy**

Abstract/Introduction:

My name is Jacob Young; I am a second/third year Computer Science student (as of late 2017) with a minor in Mathematics from the University of Guelph. This section of my blog/website will document my 8 month work term at Evertz Microsystems in Burlington, Ontario. It is my goal to explain the numerous ways that this work term has made me grow as both a Computer Science student and an employee.

Information about the Employer:

Evertz Microsystems is a global leader in designing and manufacturing multimedia products for the film/television broadcast industry. The solutions help with content creation, distribution, and delivery. Evertz has offices located in Canada (within one hour of Waterloo and Toronto), the United States, the United Kingdom, Germany, United Arab Emirates, India, Hong Kong, China, Singapore, and Australia (to name a few). Some of their equipment and solutions are delivered to television sets, on-demand services, WebTV, IPTV, and mobile devices. The clients of Evertz include, but are not limited to, ATT, ESPN, GOOGLE, FOX, NBC, CBS, HBO, and the BBC. The headquarters, where I spent my work tem, has at least five buildings in close proximity for manufacturing various hardware and software solutions. Evertz has been named one of Canada’s 50 Best Managed Companies for 8+ years in a row (2017 statistic). <http://www.canadianbusiness.com/lists-and-rankings/best-managed-companies/platinum-winners/>

Job Description:

During my 8 months at Evertz, I was a student design engineer for the VistaLINK® PRO software. My initial purpose in this role was to debug the many devices/products that can be connected to the software; this was done so I understood how the software has been developed and functions when in use. The program was written in Java with three different versions being used by different people/potential customers (11.2, 12.0, and 12.1). When updating VistaLINK® PRO with one version, the other two also had to be updated. The changes were made to both a development version, through committing to version control software SVN, and creating patch files for the released versions for clients.

As I continued along in my work term after learning the basics of how VistaLINK® PRO functions, I was tasked with adding new features to version 12.1. Some of these included adding testing scripts to see if GUI elements were broken, .

Goals:

My goals while working at Evertz were to improve my coding/debugging skills and how to use those skills in an office setting. Some of the languages I wanted to improve upon include Java, and its many additional features and extensions, and web-based languages/frameworks like HTML, CSS, and Spring Framework with different programs for front-end and back-end development.

I also wanted to improve my soft skills such as communication to become a better team member. I wanted to be a better explainer in general.

Languages and Program Utilized:

I utilized the following languages (programming, scripting, and web-based): Java, Python, Batch, HTML, CSS, TypeScript, and JavaScript.

I utilized these programs: Eclipse IDE, Squish, Outlook 2007, and TortoiseSVN

I worked with these frameworks: Bootstrap, Spring Framework, and Angular

Conclusions:

Working at Evertz helped me to immensely improve my skills in both writing and debugging code. The software had a lot of files so it helped me to appreciate the practice of writing good documentation and having good code layout. Since working at Evertz, I have gained a larger knowledge base in the Java programming language. This has helped me to become a better rounded candidate who has a lot more in depth experience with coding languages outside of the C language mainly taught at the University of Guelph. I have also improved upon the skills in programming for the Internet that were started in the course CIS\*2750. They have also helped me to improve both my written and oral communication skills when talking to people about their issues with VistaLINK® PRO and when talking about the new aspects I added to the software. Working in a setting like I did at Evertz was perfect for me. It was the perfect balance of hard work and a little bit of fun at the same time.

Acknowledgments:

I would like to thank Philips Benjamin, TJ Walker, Colin Brown, Mathew Fluder, and Vincent Liu for working with me for the last 8 months. They really helped me to improve myself in many ways; including, how to be a better programmer, communicator, person, etc. As well as trusting me to implement new features for VistaLINK® PRO to help both the customers and members of Evertz with the software.

I would like to thank the computing co-op coordinators Laura Gatto and Katherine McRoberts for being there when I had questions. Also, for setting up different events to help me improve my technical interview skills and meeting with other employers in the computing field.

**SIDE-NOTES:**

-include pictures when appropriate (nothing too big or distracting) like symbols for programming languages and Evertz logo

-figure out how to organize the layout of the website (draw basic pictures to understand how you want to organize the webpage)