**WORK EXPERIENCE**

Hardware Engineering Intern, Arista Networks Inc, Santa Clara, CA, September 2016 – December 2016

* Drove development of Integrated Power Shelf (IPS) internal project, heavily contributing to the hardware and software design of the 1RU BeagleBone-controlled power system
* Expanded and prototyped the software platform for the IPS, adding SNMP functionality, Flask web interface, and software telemetry capabilities
* Conducted a comprehensive hardware evaluation of a new digital power management IC, testing functionality and ensuring compatibility with new designs, and culminating in a formal report
* Assisted with various schematic design and prototyping tasks as needed

Hardware Designer, Imagine Communications, North York, ON, January 2016 – April 2016

* Assisted with VHDL design and simulation for Xilinx-based FPGAs centered around real-time audio and video processing
* Revised and updated electrical schematics with Cadence EDA tools to replace an IC on an existing production board, then tested and verified the successful redesign
* Analyzed and debugged a defective board through examining the schematic, conducting electrical measurements through an oscilloscope and multimeter, and logical circuit troubleshooting
* Conducted SFP+ compliance testing on pre-production boards, as well as wrote the associated formal compliance reports

Junior Engineering Intern, Kepstrum Inc, Concord, ON, May 2015 – August 2015

* Led development of a major Windows application in C#, meant to facilitate internal engineering processes, and completed a working prototype in less than two months of work
* Contributed to software and test stand HMI development on-site at Kepstrum’s technical facilities in Austria
* Initiated changes to existing business practices through the introduction of a formal revision control system as well as a centralized knowledge-base for the company

Student Computing Consultant, University of Waterloo Information Systems and Technology Department, Waterloo, ON, April 2014 – April 2015

* Worked part-time during school in the same capacity as a Junior Technical Support Specialist, providing front-line technical support and services to the university community during off-peak hours

Software Systems Analyst, BlackBerry Limited, Waterloo, ON, Sept. 2014 – Dec. 2014

* Administrated and supported employees on different systems such as JIRA, Git, Gerrit, Perforce, Integrity, and other proprietary internal tools
* Took ownership of the development of an existing BlackBerry 10 app, improving and updating it for newer versions of the OS through fixing bugs and introducing new features that capitalized on the capabilities of newer BlackBerry devices
* Developed an internal Android app to fill an existing need within the company, successfully learning Android development basics in parallel to the regular duties of the job

Junior Technical Support Specialist, University of Waterloo Information Systems and Technology Department, Waterloo, ON, Jan. 2014 – April 2014

* Provided front-line technical support and services to the university community
* Solved a wide variety of technical problems using logical troubleshooting methodology
* Continually offered exceptional customer service to the student and staff community, and was specifically recognized for this within the organization through client feedback
* Developed a wireless testing tool in C++, aimed at providing diagnostic information about the wireless internet strength at various locations around the university

EDUCATION

Candidate for Bachelor of Applied Science, Mechatronics Engineering, University of Waterloo, Waterloo, ON, Sept. 2013 – present

* Achieved a competitive rank of 21st of 132 students during the 2B term, maintaining a cumulative average of 85.1%

AWARDS

* **WatPD Engineering Entrance Scholarship**, University of Waterloo, Waterloo, ON, July 2013 (for academic and extracurricular excellence)
* **Governor General's Academic Bronze Medal**, King City Secondary School, King City, ON, June 2013 (for achieving the highest average upon graduating)

EXTRACURRICULARS

* **Member of Waterloo Formula Electric** (May 2016 - Present)**:**
* Worked with various teams in a cross-functional role, involved with the electrical hardware, chassis, and aerodynamics sub-teams
* Worked on prototyping an inertial testing rig to accurately measure and define the turning characteristics of the vehicle
* **Electronics and Hardware** **Prototyping** (2013 - Present)**:**
* Explored and learned valuable electronics skills such as soldering, circuit troubleshooting, electrical CAD, and home PCB etching through a variety of small Arduino-based projects
* Designed and prototyped practical circuits such as an AUX-to-Bluetooth module for my car, a variable power supply for future projects, and addressable LED string lights for room decoration
* Experimented with various small projects focused around the ‘Internet of Things’ using a Raspberry Pi and Photon wi-fi development kit
* Gained experience in designing and assembling mechanical systems through construction of a 3D printer, custom wooden rack, and other project enclosures
* **Self-Guided Programming and Software Systems Projects** (September 2012 – Present)**:**
* Designed and created my personal website, www.krisztiankurucz.ca, using HTML, CSS, and Javascript as necessary to craft a modern user experience
* Wrote plugins for a popular Java-based game, one of which was downloaded over 1000 times by the community
* Created and setup a promotional website and e-mail newsletter system for a community run series of open mic events at www.yropenmic.com
* **Engineering Orientation Leader** (September 2014, 2015 & 2016)**:**
* Led, instructed, and supervised students, as well as participated in the setup and teardown of most events in an administrative role (in 2016)
* Took responsibility for an entire colour group of over 80 students, with the help of only two other orientation leaders (in 2015)
* Organized and supervised incoming first-year students, ensuring they were engaged and having fun during orientation week activities