

# Krisztian Kurucz

3A Mechatronics Engineering

## Contact

### PERMANENT

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### TEMPORARY

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## Languages

English  
Hungarian

## Programming

Java, C++, C#  
Python  
HTML & CSS  
JavaScript, Node.js  
PHP & SQL  
VHDL & Verilog  
PLC Programming  
Embedded C  
MATLAB  
Assembly

## Hardware

Xilinx & Altera FPGAs  
Arduino  
ARM Cortex  
PIC

## Software

AutoCAD  
Solidworks  
EagleCAD  
Cadence  
PADS  
Xilinx Vivado  
Altera Quartus  
Microsoft Office

## Education

### Candidate for Bachelor of Applied Science (BASC) in Mechatronics Engineering

University of Waterloo, Waterloo, ON

Expected 2018

Relevant Courses: Algorithms and Data Structures, Intro to Microprocessors and Digital Logic, Computer Structures and Real-Time Systems, Sensors and Instrumentation, Micro-processor Systems and Interfacing, and Actuators and Power Electronics

### Ontario Secondary School Diploma (OSSD)

King City Secondary School, King City, ON

2013

## Experience

### Full Time

#### IMAGINE COMMUNICATIONS

Toronto, Ontario

Hardware Designer

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, probing using a multimeter and oscilloscope, and logical circuit troubleshooting
- Conducted SFP+ compliance testing to ensure signal integrity on pre-production boards, as well as wrote the associated formal compliance reports

#### KEPSTRUM INC

Vaughan, Ontario

Junior Engineer

May 2015 - August 2015

- Led development of a major Windows application in C#, meant to facilitate internal engineering processes, completing a working prototype in less than two months
- Contributed to software and PLC 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

#### BLACKBERRY LTD

Waterloo, Ontario

Software Systems Analyst

September 2014 - December 2014

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

#### UNIVERSITY OF WATERLOO INFORMATION SYSTEMS AND TECHNOLOGY

Waterloo, Ontario

Junior Technical Support Specialist

January 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

## Part Time

### UNIVERSITY OF WATERLOO INFORMATION SYSTEMS AND TECHNOLOGY

Waterloo, Ontario

Student Computing Consultant

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

## Awards

### WatPD Engineering Entrance Scholarship

University of Waterloo, Waterloo, ON

Received for academic and extracurricular excellence

September 2013

### Governor General's Academic Bronze Medal

King City Secondary School, King City, ON

Received for achieving the highest average upon graduation

June 2013

## Personal Projects

### 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
- 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

2012 - Present

- Designed and created my personal website, [www.krisztiankurucz.ca](http://www.krisztiankurucz.ca), learning HTML, CSS, and Javascript as necessary to craft a modern user experience
- Wrote plugins for a popular Java-based game, one of which became popular and was downloaded over 1000 times by the community
- Managed and administered the backend to my website by setting up, configuring, and securing all necessary packages and services on a virtual private server running Ubuntu

### Engineering Orientation Leader

September 2014 & September 2015

- Organized and supervised incoming first-year students, ensuring they were engaged and having fun during orientation week activities
- Took responsibility for an entire colour group of over 80 students, with the help of only two other orientation leaders

## Interests

**professional:** data analysis, electronic design, app creation, web design, programming, wood-working

**personal:** cooking, running, snowboarding, reading, photography

## References

Available upon request.