

# Vlad Samonin

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## EDUCATION

**Bachelor of Computer Engineering** Graduated: 2019  
*University of Manitoba*

- Dean's Honour List - Winter 2018
- Dean's Honour List - Fall 2016

## RECENT AWARDS & ACHIEVEMENTS

2nd Place Humanoid Application Challenge (Madrid, Spain) . . . . . October 2018  
*This is a competition part of IROS Conference where we demonstrate the intelligent humanoid robots, including vision, speech understanding, gesture recognition, coordination, reasoning, Augmented Reality, machine learning, Smart UDP communication, and human-robot interaction. Even though I was an undergraduate student, there we competed with Ph.D. and master students from different countries including England, Brazil and Germany.*

3rd Place (of 146) Overall Best Paper Award (IEA-AIE) . . . . . June 2018  
*The paper titled "Robot Magic: A Robust Interactive Humanoid Entertainment Robot" awarded 3rd overall best academic publication (out of 146 research papers) at (IEA-AIE)*

1st Place at **IROS Conference** Finalist Humanoid Application Challenge (Vancouver, Canada) October 2017

## EXPERIENCE

**JCA Electronics** (April-September 2018) (February 2019-Current)  
Currently part of the Autonomous Framework Team. Working as Software Engineer C# back-end, Xamarin Forms, ROSBridge, Vue JS technologies.

- Developed Augmented Reality applications with Microsoft HoloLens. Using Unity and Visual Studio as primary IDE.
- Created marked based AR application for the tablet by using Vuforia API, Google ARCore and Unity IDE. There's also joystick implemented which can be used to rotate the 3d model. And pause menu created, there's an option to reset the positions of 3d objects or to exit the application.
- Created SLAM (Simultaneous localization and mapping) based application for the headset HoloLens. Where using hand gesture and speech commands 3d objects are manipulating in the virtual space.
- Created Location Based AR application where used RestAPI for communication with the server. And MapBox API for getting the GPS locations mapped into a Cartesian coordinate system.

**Agriculture and Agri-Food Canada** (May-September 2017)  
Worked on various projects at Application Development team for Farm Income Delivery Systems. Worked in Eclipse IDE doing java back-end, XHTML programming.

- One of the projects I worked on was developing Digital Signature feature for signing the PDF documents. The Digital Signature eliminated the need to print the documents for signing and later on the scan it, instead the digital signature is directly applied to pdf with one click of the button; allowing to make the important verification outside of the office location.

**(UCCMB) Ukrainian Canadian Congress Provincial Council** (Summer 2016-2017)  
Worked as Web-Developer with Ukrainian Canadian Congress

- Developed new website uccmb.ca. Created the new booking system for kyivpavilion.ca which served more than 2000 people during 2 years of operating. Helped in Helped to organize Ukrainian events such as Ukrainian Day, 125 Anniversary of Ukrainians in Canada.

**Storm-Develop** (2015-Present)  
Web-Development studio

- Opened my own web-development studio storm-develop.com to help small businesses increase value of company and amount of sales through digital solutions.

**Non-Technical Experience** (Summer 2014-2015)  
Canadian Property Stars (Direct Sales representative)

- Worked in Direct Sales with homeowners to have opportunity to travel and increase my communication skills.

## PROGRAMMING SKILLS

- C# - Full Time since February 2019 & 5 month Co-Op Term (Summer 2018)
- C,C++ 2 semesters 2016-2017 & 2 years In Robotics Club
- Java 6 semesters & 5 month Co-Op Term. (Summer 2017)
- Assembly, Microprocessor structure 2 semesters 2016-2017
- Python & Verilog HDL 1 semester 2015
- HTML, PHP, CSS, Vue JS Web-development as part of Storm-Develop business
- Worked with RESTful, Mapbox, Vuforia, Google ARCore, SODA API, UDP, TCP/IP protocols

## SOFTWARE (tools) EXPERIENCE

- Linux Ubuntu OS, Word Press, Android Studio, Unity IDE
- Visual Studio Basic, Eclipse, Clion, NetBeans IDE
- Quartus II, CODE WARRIOR, MpLab-X IDE, Oracle IDE Multisim, MatLab, Oscilloscope
- Adobe After Effects, Adobe Illustrator, Microsoft Word, Excel

## GENERAL SKILLS

- Speak three languages: English, Ukrainian, and Russian
- Have a Candidate Master of Sports from Kettlebell sport. Learned discipline, teamwork, how to follow instructions and hard work. Ambitious, outgoing, reliable and have a solid work ethic.

## PROJECTS

- HackMaster Android Game [github.com/drFruitFace/hackmaster](https://github.com/drFruitFace/hackmaster)
- Automated Magnetic Cube Sorter [vlad.storm-develop.com/automated-magnetic-cube-sorter](https://vlad.storm-develop.com/automated-magnetic-cube-sorter)
- DJ LaunchPAD [vlad.storm-develop.com/ece-2200-project/](https://vlad.storm-develop.com/ece-2200-project/)
- Created the following websites: [storm-develop.com](https://storm-develop.com) , [freeline.storm-develop.com](https://freeline.storm-develop.com), [uccmb.ca](https://uccmb.ca), [manitobaucss.ca](https://manitobaucss.ca), [associationcanada.org](https://associationcanada.org)

## PERSONAL INTERESTS

- Gym, Spartan Race, kettlebells, magic tricks, Adobe After Effects videos, New Venture Competitions.