

# Jason Wang

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## Education

2014-2019 **Department of Electrical and Computer Engineering** University of Toronto  
*Bachelor of Computer Engineering* (ANNUAL GPA 3.57)  
Dean's Honours List

## Technical Skills

**Languages:** C/C++, C#, VB, Java, Ruby, Python, Verilog, Assembly, HTML/CSS, MatLAB, JavaScript, JQuery, LaTeX, PHP, XML, SQL, PowerShell

**Software/Frameworks:** Altium Designer, Autodesk Fusion, Dreamweaver, ModelSim, MultiSim, ROS, OpenCV, Tensorflow, SolidWorks, Quartus, Unity3D, Visual Studio

**Courses:** Algorithms and Data Structures, Computer Networks, Communication Systems, Dynamic Systems and Control, Inference Algorithms and Machine Learning, Operating Systems, Real Time Computer Control, Robot Modelling and Control, Probability and Applications,

## Work and Research Experience

2017 May **Medical Imaging Research Intern** Sunnybrook Hospital

- Wrote Matlab code and embedded C/C++ software for signal processing for a new biomedical imaging device using Ultra-Wideband Radar
- Used detection theory to estimate tissue layers under 2.5cm of depth

2016 May **Software Developer Intern** Bell Canada

- Developed and unit-tested callflow orchestration scripts for a Genesys Callcenter system
- Developed an end to end regression testing system using Empirix Hammer for 16 Lines of Business and over 1000 toll free numbers
- Developed an Audio File Monitor that tracks all audio files played in all call centers assisting the testing team

2016 Jan **Rehabilitation Research Student** UHN Department of Rehabilitation

- Researched a device which measures obstructions on city pavement
- Designed a optical/mechanical device that traces bumps on the sidewalk

## PRESENTATIONS

2017 Aug 9 "Cardiac Wall Motion Detection using Ultra-Wideband Radar during cardiac catheterization", Undergraduate Engineering Research Day, University of Toronto

## Extracurricular Activities and Projects

### ENGINEERING STUDENT GROUPS

2015-17 **RoboSoccer Software Lead - Computer Vision** *University of Toronto Robotics Association*

- Applying object localization and intelligent object recognition using ROS (Robotic Operating System), Matlab, OpenCV and Tensorflow ([Github](#))
- Working with Control team to create Supervised learning and Control Models for the Robocup [simulation league](#) in 2018 under the supervision of our faculty advisor [Professor D'Eleuterio](#)

2015-17 **Lead/President** *Hacker Academy*

- Facilitated and Delivered NETtalks to students, focusing on computer security
- Communicated with Sponsors such as GE and created the Machine Learning challenge for the [DeepHealth Hackathon](#), University of Toronto's first healthcare and AI themed hackathon.

## SELECTED DESIGN PROJECTS

2016-Now	<b>Soccerbot</b> - Robot team that plays soccer, technologies include SLAM, ROS, OpenCV - In development
2014-Now	<b>Macabre III</b> - Middle age pixellated role playing game made using Unity Engine
2016 April	<b>Edge Detector</b> - Camera edge-detecting software made with NIOS Assembly using 2DFFT filters
2016 Nov	<b>Wireframe Drawer</b> - Simple wireframe drawing hardware made with Verilog HDL
2016 Feb	<b>Student Club Index Searcher</b> - Engineering student club search bar made with Wordpress, PHP AJAX and SQL

## INTERESTS/HOBBIES

**Interests:** Computer Vision, Deep Learning, Reinforcement Learning, Humanoid Robot Modelling and Control, Quantum Physics, Amazon Deep Learning Cloud, Game Development

**Hobbies:** Fishing, Road Cycling, Piano (Grade 10 Certificate), Ping Pong(High school champion), Chess(High school champion)