

# ANDREW NGUYEN

electrical engineer

## Contact

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## Skills

**Conversationally Fluent:** Java, C++, HTML5, CSS3

**Working Knowledge:** R, VisualBasic,  $\text{\LaTeX}$

**Curious Tourist:** JavaScript, Arduino, Node.js

## Education

### University of Waterloo

*Candidate for B. A. Sc., Electrical Engineering*

2016 - Present

Fall 2016 Average: 90% (Top Decile)

## Awards

- 2017 US Computing Olympiad Gold Division
- 2016 Nortel Networks Undergraduate Scholarship
- 2016 University of Waterloo President's Scholarship of Distinction
- 2016 Top 5% on AMC12 (AIME Qualifier)
- 2016 2nd place nationally at ARML

## Interests

- Athletics - ice hockey, volleyball, soccer
- Music - guitar, saxophone, piano
- Languages - French, Spanish, Vietnamese
- Cooking, baking

## Experience

### Junior Software Engineer

*Industry Canada*

Added functionality to spectrum measurement software in Visual Basic, and performed data analysis and visualization of Wi-Fi signal strengths in R. Performed basic hardware tests to ensure smooth integration with software components.

Ottawa, Ontario

Jan 2017 - Present

### Computer Camp Counsellor

*City of Toronto*

Taught campers aged 6-12 basic computer skills including Word, Excel, Powerpoint, and touch typing. Resolved conflicts between campers and kept order, both in the community centre and while on off-site field trips around Toronto.

North York, Ontario

May 2015 - Aug 2015

### Assistant Math Teacher

*Spirit of Math Schools*

Assisted teacher in explaining theoretical and applied concepts to the class, as well as working with individual students to provide more focused help when needed. Represented the Spirit of Math organization professionally whilst dealing with parents.

Toronto, Ontario

Sep 2013 - Jun 2015

## Projects

### TherapyHelper 🌐

[github.com/dtong1113/TherapyHelper](https://github.com/dtong1113/TherapyHelper)

Web application giving therapists a way to both provide custom self-assessments and view all patient data in one place, as well as giving patients a more convenient way to complete their homework. Built with JavaScript, Vue.js, Node.js, and standard HTML/CSS.

DeltaHacks III

Jan 2017

### Web Robot 🌐

[github.com/Havkiin/RobotRock](https://github.com/Havkiin/RobotRock)

Robot controlled through user input from a website, that can capture/save images on click without requiring an internet connection. Built with Arduino and PHP, as well as standard HTML/CSS.

ConU Hacks II

Jan 2017

### Basic Assembly Simulator 🌐

[github.com/aanguyen/assembly-parser](https://github.com/aanguyen/assembly-parser)

A simple parser of RISC assembly instructions, and a customized priority queue (without using library functions) to push events based on the required completion time and pop from the beginning, built with C++.

ECE150

Nov 2016