




# Jason Wong

University of Toronto, Electrical Engineering

: [/in/jasonwong94](https://www.linkedin.com/in/jasonwong94)

: [/jasonwong94](https://github.com/jasonwong94)

: [jaw.wong@mail.utoronto.ca](mailto:jaw.wong@mail.utoronto.ca)

 : 416-624-7250

## Education

### **Electrical And Computer Engineering,**

**University Of Toronto, CANADA (2012-2017)**

- *Capstone Project:* Efficiency of Wall Chargers with Gallium Nitride (GaN) Transistors
- *Interest:* power electronics, analog/integrated circuits

## Experience

### **Summer Volunteer (May – August 2016)**

**University of Toronto, Toronto (Professor W.T. Ng)**

- Assisted in investigating Class D Audio Amplifiers with Si and GaN transistors
- Utilized lab equipment (logic analyzer and Audio Precision interface) to analyze digitalized sound sent to programmable codec board
- Interfaced a CODEC device using C

### **Front End Intern (November 2015 – April 2016)**

**Adparlor, Toronto**

- Enhanced and modified the frontend AdParlor platform using Backbone, MarionetteJS and StickIt
- Proactively investigated and closed bug requests as they became available through request queues- reduced existing bug queue by 40%
- Maintained frontend system with Twitter and Facebook advertising APIs via collaboration with backend developer to minimize downtime
- Added new features and assisted with testing during beta and public launch phases for [admocks.adparlor.com](http://admocks.adparlor.com).

### **Software Developer (May – September 2015)**

**Desire2Learn, Kitchener-Waterloo**

- Refurbished existing product features currently in .NET by using Javascript libraries (NodeJS, Karma and Angular), HTML and Sass

### **Spark Design Club Co-president (May 2015 – May 2017)**

- Designed multiple innovative, interactive displays around campus in conjunction with mechanical and electrical undergraduate students (see "Projects" Section)
- Directed and mentored club executives to fulfill design club missions and goals, winning Engineering Society Award for achievement and contribution towards Skule

## Projects

### **4<sup>th</sup> Year Capstone Design Project: Efficiency of Wall Chargers with GaN Transistors**

- Designed and compared USB C chargers with GaN and Si MOSFETs that could potentially be used in the future
- Designed PCB and selected components; verified correctness of PCB layout by building and testing incrementally; debugged circuit to verify functionality

### **Spark Design Club:**

A list of some of the most engaging interactive displays built when I was in the team:

- **Ready Set Step!** – An electromechanical two-player display played by constantly stepping on a tile to move the display. This display was done in collaboration with another club (Sustainable's Energy Association) to promote energy awareness
- **Connect 4** – a magnified and electronic version of the game with discs replaced with LEDs
- **Music Switchboard** – a giant array of mechanical switches used to compose music with a Raspberry pi

## Skills

- **Programming:** C, C++, C#, HTML, CSS, SASS, Javascript, Shell/Terminal (Bourne), SQL, Verilog
- **Embedded Systems:** Arduino, Raspberry Pi, Altera FPGA
- **Productivity:** JIRA, Rally, GitHub, GitLab, SVN, SourceTree
- **IDE:** Netbeans, Eclipse, Visual Studio, Quartus II,
- **Analytical:** LTspice, MATLAB, Eagle PCB, Altium, PLECS

## Awards

- **Engineering Society Affiliated Club of the Year (2015-16):** Spark Design Club

## Extra-Curricular/Leadership

- **University of Toronto Robotics Association:** Combat and 3D printer
- **Spark Design Club:** Co-President (2015-Present), Marketing and Webmaster (2014-15)
- **Undergraduate Research Day 2014:** Logistics Director

## Interests

- **Sports:** Volleyball, hockey and basketball
- **Development:** Web and Mobile