


# Charles Wu

Systems Design Engineering, Management Science Option

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## Objective

To build and create elegant interfaces in order to optimize products, focusing on data visualization and perfecting user experience.

## Experience

### Designer McKinsey Digital

Summer 2014, New York City, NY

- Developed visual layouts, storyboards, low to high fidelity prototypes, and interactive demos using FramerJS
- Translated client requirements and completed user needs analysis to create meaningful results

### UX/Developer Intelligent Mechatronics Systems

Fall 2013, Waterloo, ON

- Researched and performed user case analyses to improve the app for all customers
- Designed, improved, and developed Android fragments and layouts, decreasing load time by 50%
- Created and integrated modern visual elements into the project

### iOS Mobile Developer Ash City Worldwide

Winter 2013, Richmond Hill, ON

- Planned and managed the development lifecycle, conducting user research while enforcing best practices
- Worked with clients to optimize user interface
- Developed the iOS Ash City App independently

### Web Content Developer Raymond James Ltd.

Summer 2012, Toronto, ON

- Created and updated content for the public Raymond James webpage, impacting hundreds of daily users
- Redesigned the employee Intranet site using HTML5, CSS3, JS, Photoshop and Flash
- Worked with multiple advisors on creating personalized websites

### Business Project Assistant York Municipality

Fall 2011, Newmarket, ON

- Developed an intuitive user feedback system that was implemented in several senior assistance centres
- Improved bureaucratic workflows by introducing digital technologies and improving user experience

## Skills

User Research	<div><div></div><div></div><div></div><div></div><div></div></div>
Illustrator	<div><div></div><div></div><div></div><div></div><div></div></div>
Photoshop	<div><div></div><div></div><div></div><div></div><div></div></div>
Objective-C	<div><div></div><div></div><div></div><div></div><div></div></div>
Java	<div><div></div><div></div><div></div><div></div><div></div></div>
HTML/CSS	<div><div></div><div></div><div></div><div></div><div></div></div>
Javascript	<div><div></div><div></div><div></div><div></div><div></div></div>

## Education

**Bachelor of Applied Science: Systems Design Engineering, Management Science Option (Graduating April 2015)**

University of Waterloo, Waterloo, ON.  
Relevant Courses: Cognitive Ergonomics, Human Factors, Engineering Design

## Activities and Interests

### Projects

- Created device to wirelessly transfer data files via gestures
- Developed and published an independent Android study tool
- Developed a fitness tracking app to process sensor data
- Freelance Photography

### Volunteer

- EngSoc Class Rep for Systems Design 2015 (2010 - Present)
- Orientation Leader and Director (2012 - 2014)

### Student Organizations

- Co-op Storage - Co-Founder, Graphic Designer (2014)
- BufferBox - Student Designer, Team Lead (2012)

### Recreation

Biking, Ultimate Frisbee, Volleyball, Soccer, Piano, Guitar, Cinema