

# <alex\_cordonnier>

## <education>

### **Bachelor of Science in Computer Science**

University of Illinois at Urbana-Champaign, Class of 2017  
James Scholar Honors Program — GPA: 3.55

## <contact>

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University email: cordonn2@illinois.edu  
Cell phone: (937) 564-0234  
Website: alexcordonnier.com

## <developer\_skills>

HTML/JavaScript/CSS • jQuery • Java • C • VB.NET/VBA • Z80 assembly • Arduino • GitHub • PHP

## <experience>

### **Software Engineering Co-op at Midmark Corporation**

May 2014 to Aug. 2014

I programmed microcontrollers in C for products such as medical procedure chairs. Some of my projects included:

- Fixing bugs with several interfaces and fixing code to comply with the coding standard
- Writing hardware-interfacing code for a new board
- Writing unit tests and test protocols
- Writing and fixing documentation
- Writing macros to export information from project status report documents to a SharePoint dashboard

### **E-Marketing Intern at Midmark Corporation**

May 2013 to May 2014

Worked on several web development projects ranging in size, some of which I led. Projects included:

- Designing & developing HTML5 versions of the old Flash color selectors, including making them work on iPads
- Developing a new Dental color selector from the ground up, especially for use on a 42" touchscreen at tradeshow
- Developing HTML5 versions of three Flash banners at midmarkanimalhealth.com
- Producing an offline version of midmarkclinicalsolutions.com for the sales representatives' iPads and tablet PCs
- Editing various pieces of content on the corporate website, midmark.com

## <projects>

*More details at [alexcordonnier.com](http://alexcordonnier.com)*

### **Running theater lights from a calculator**

I designed, built, and programmed an Arduino-based device that connects to both a TI graphing calculator as well as DMX-wired theater or DJ lights. The calculator sends channel values to the Arduino, which in turn sends valid DMX packets to the dimmer racks. I also wrote the necessary driver for a TI-83 or 84 to communicate with the Arduino. The project was featured on Hackaday.com on Aug. 3, 2014.

### **Launchpage**

I created a Google Chrome extension (written in HTML5, CSS, and JavaScript) that replaces the new tab page with a home screen of apps, like an iPad. Features include speed, custom backgrounds, a "chameleon" color scheme that adjusts to match the background image, and the ability to add arbitrary webpages.