

KEVIN M. CALDWELL

IoT HARDWARE ENGINEER

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ABOUT ME:

Driven by a need to know how things work, I apply that knowledge along with design principles to tackle real-world issues.

EDUCATION:

Make School – San Francisco, CA

2015 – 2017 (Expected)

Electrical Engineering, Computer Science, Entrepreneurship

Make School creates foundations in problem-solving, learning by doing, working in teams, shipping real-world products and entrepreneurial career development. Curriculum includes but is not limited to Internet of Things, electrical engineering, algorithms and data structures, and full-stack iOS and web development.

State University of New York at Purchase – Purchase, NY

May 2013

Bachelor of Arts – Media, Society & the Arts

Using cultural theory, cultural production, and DIY aesthetic to explore the roles that media technologies and the arts play in everyday life.

SKILLS:

IoT	PCB Design	Radio Engineering	C / C++	Python	TCP / IP / UDP Protocol
Arduino	Raspberry Pi	iOS App Development	Swift	PHP / MySQL	3D Modeling / Printing
Adobe Photoshop / Illustrator					

PROJECTS:

xBAND – P2P radio mesh network

April 2016

- Utilizing a low-cost ISM radio connected to an Arduino, this device plugs into virtually any android device; with numerous devices, a P2P mesh network is established with the capability of bridging internet access to other peers in the network.

Viewtiful – iPhone Remote-Controlled IoT Camera System

Jan 2016

- Using an IR sensor and PiCam connected to a wifi-enabled Raspberry Pi a user can live stream stream from the camera to their phone over a TCP socket connection. 3D modeled and printed case design.

Selfie Swipey – IoT Gesture-Activated Camera

Oct 2015

- Using a webcam connected to a Wifi-enabled Arduino Yun, an IR sensor detects a wave gesture that triggers a photo to be taken, uploaded using the Dropbox API and sent as an MMS using the Twilio API.

EXPERIENCE:

Social Media Manager Intern

July 2015 – Sep 2015

3DP4E (3D Printing 4 Everyone), New York, NY

- Created, curated and managed daily social media content and promotions via Facebook, Twitter, and Instagram.
- Collaborated on content creation with various blogs and websites including *3DPrint.com* and *hello, Wonderful*.
- Published and distributed newsletter content to users and clients.

Web Development Intern

Sep 2014 – Jan 2015

StarChefs.com, New York, NY

- Supported the maintenance and updating of the back-end frameworks.
- Implemented industry techniques of web UX/UI.
- Applied knowledge of industry-standard security principles.
- Utilized web development tools including PHP, MySQL, Drupal, HTML and CSS.