

# CK

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## EDUCATION



**Massachusetts Institute of Technology**

**Class of 2016**

Bachelor of Science in Electrical Engineering and Computer Science

6.01  
6.02  
6.004  
6.005

Introduction to EECS I  
Introduction to EECS II  
Computation Structures  
Elements of Software Construction  
Circuits and Electronics  
Introduction to Algorithms

6.111

Digital Electronics Laboratory

6.036

Introduction to Machine Learning

15.390

New Enterprises

CMS.617

Advanced Game Studio

MAS.531

Computational Camera: Google Glass, Microsoft Kinect and Apps

## SKILLS



### CREATIVE

Product Design Graphic Design  
Photography 3D Modelling  
Music Composition Video Editing



### CODING / SOFTWARE

Python Java PHP C++ JavaScript MySQL  
D3 OpenCV Bootstrap Android Arduino  
Inventor Maya Photoshop Illustrator



### LANGUAGE

English native language  
Filipino native language  
Mandarin conversational

## EXPERIENCE

### Kopin Corporation

Software and Design Intern (June - Aug 2014)

Designed/developed a new version of Kopin's smart eyewear **main menu interface** that is more intuitive to navigate and makes it easier to see text on the display in bright sunshine.

Developed on the **Tizen Wearable OS** and **Android Wear**, integrating them with Kopin's eyewear platform, enabling navigation through menus by swiping the watch face.

Prototyped a **smart bike helmet** and **bike application** that interfaces with a Wahoo Blue SC Bike Sensor and a Wahoo Blue HR HeartRate Monitor.

Created a **turn-by-turn directions** eyewear application that uses the **Google Maps API** and GPS.

Created **documentation** that outlines Kopin's approach to their eyewear SDK and **compared it against the architecture of other wearables** such as the Galaxy Gear and the LG G. Presented a final demo of all my work to top company executives.

### Kubra.io

Cofounder, Designer, Software Lead (Jan - May 2014)

Gesture control ring for wearable devices:

Won one of two awards at the **MIT 100k Accelerate Competition** out of over 200 teams

Interviewed with **Y Combinator**

Worked with **microcontrollers**

**Machine learning** algorithms for gesture recognition

Created ring housing designs and renders on **Autodesk Inventor** and **Maya**

Designed and created the company **website**

Team **leadership** and conflict resolution experience

### MIT Media Lab

Undergraduate Researcher (Aug 2013 - Jan 2014)

100 maps 100 cities project - Social Computing Group:

Mining and processing public data sources and **visualizing data** on digitally created maps. Most recently used Google Streetview images and **computer vision** (OpenCV) to determine the area of sky in certain points on a map as well as the percentage of greenery surrounding the sky. Later used D3 to visualize the data on a map.

### IBM Corporation

Intern (June - August 2013)

Data visualization, interactive interfaces, brand system, IBM analytics

Developed a **ride sharing web app** for travelling IBM employees

Worked with and regularly updated a travel database using **MySQL**

### University of the Philippines

Teaching Assistant (June - August 2013)

Worked with university students to formulate and implement **startup ideas**

Gave lectures and created lecture slides on **entrepreneurship** topics

### MIT Strano Research Group

Undergraduate Researcher (Jan - May 2013)

Performed **graphene growths** and transfers

Proposed and developed new graphene growth methods to optimize growth.