

# Chiyoung Kim

11691 Weddington St. North Hollywood, CA 91601 | 213.273.6455 | [chiyoungkim95@gmail.com](mailto:chiyoungkim95@gmail.com)  
<http://chiyoungkim.com> | <https://www.linkedin.com/in/chiyoungkim>

## Education

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### Harvard College

S.B. in Electrical Engineering

Expected Graduation: May 2017

## Professional Experience

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### Microsoft – Enterprise/Telemetry & Diagnostics

*Intern – Program Manager, Designer, Developer*

Collaborated with Enterprise and Privacy representatives to create an official Microsoft transparency tool targeting enterprise privacy concerns to demonstrate Windows 10 telemetry safety. Created specifications, designed UI/UX, and developed features.

May 2016 – Aug. 2016

Redmond, WA

### Nichrome Icicle Cutter – Startup

*Co-Founder, Engineering, Product Management*

Created an icicle cutting device for Harvard Facilities Maintenance Operations with team and acquired provisional patent. Project accepted into the Harvard Innovation Lab's Venture Incubation Program. Project featured in international news and television.

Sept. 2015 – May 2016

Cambridge, MA

### Harvard College, Extavour Lab – Product Design – Agabros

*Researcher, Product Designer*

Worked with members of the Extavour lab to design a tool for simultaneous analysis and imaging of multiple specimens. Designed product from specimen data and user feedback, fabricated several prototypes and a final product.

Sept. 2014 – March 2015

Cambridge, MA

### Massachusetts Eye and Ear Infirmary – Experimental Cochlear Implants

*Researcher/Consultant, PI: David Landsberger (NYU), Konstantina Stankovic (MEEI)*

Created a research tool in MATLAB that sends custom stimuli to cochlear implants. Will be used in development of a fully implantable device. Collaborated with Massachusetts Eye and Ear Infirmary and New York University.

July 2014 – Aug. 2014

Cambridge, MA

### House Research Institute – Cochlear Implants

*Research Assistant, PI: David Landsberger*

Modeled possible effects of cochlear stimulation from cochlear implants. Participated as subject in ear studies. Assisted in analyzing data on hair cells of the ear. Created models using MATLAB. Presented findings.

July 2013 – Aug. 2013

Los Angeles, CA

### NASA Jet Propulsion Laboratory – Mission Quality Assurance

*Researcher, PI: Henry Garrett*

Created a model of magnetic radiation around Uranus. Used model to check previously made model and found errors in said previous model. Modeled in Mathematica, used various tools to facilitate data collection.

July 2012 – Aug. 2012

Pasadena, CA

## Technical Projects

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### Holo In One – HoloLens, Augmented Reality, Bluetooth, IMU, Unity

During Microsoft internship, managed a small team leading up to and during a hackathon to create an AR mini-golfing game using the Microsoft Band and HoloLens. Accepted into the HoloHack Bootcamp and also did development work alongside team.

June 2016 – July 2016

### 16-Bit Processor – VHDL, Circuit CAD, Simulation, Design

Created a 16-bit processor in which the datapath and register were made in Cadence and control unit was synthesized using Verilog. The processor was co-simulated and provided 6 possible assembly-level instructions.

March 2016 – May 2016

### Turf Wars – Rapid Fabrication, Modeling

Led winning team in a botball-style event where teams of 3-4 designed and built robots using 3D modeling, laser cutting, 3D printing, molding, casting, and other mechanical fabrication methods.

March 2015 – May 2015

### Acoustic Triangulator – Signal Processing, Hardware Interfacing

Created a system in MATLAB that took microphone inputs to triangulate the locations of sound sources.

March 2014 – May 2014

## Technical Skills and Interests

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**Languages and Tools:** MATLAB, Mathematica, Python, C, C#, Visual Basic, HTML, DataThief, Zeiss Blue, ImageJ

**3D Modeling and Rapid Prototyping:** AutoCAD, SolidWorks

**Interests:** Dance, Music, Music Production