Chiyoung Kim

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Education

Harvard College   Expected Graduation: May 2017
    S.B. in Electrical Engineering

Professional Experience

Microsoft – Enterprise/Telemetry & Diagnostics   May 2016 – Aug. 2016
Intern – Program Manager, Designer, Developer   Redmond, WA
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.

Nichrome Icicle Cutter – Startup   Sept. 2015 – May 2016
Co-Founder, Engineering, Product Management   Cambridge, MA
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.

Harvard College, Extavour Lab – Product Design – Agabros   Sept. 2014 – March 2015
Researcher, Product Designer   Cambridge, MA
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.

Massachusetts Eye and Ear Infirmary – Experimental Cochlear Implants   July 2014 – Aug. 2014
Researcher/Consultant, PI: David Landsberger (NYU), Konstantina Stankovic (MEEI)   Cambridge, MA
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.

House Research Institute – Cochlear Implants   July 2013 – Aug. 2013
Research Assistant, PI: David Landsberger   Los Angeles, CA
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.

NASA Jet Propulsion Laboratory – Mission Quality Assurance   July 2012 – Aug. 2012
Researcher, PI: Henry Garrett   Pasadena, CA
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.

Technical Projects

Holo In One – HoloLens, Augmented Reality, Bluetooth, IMU, Unity   June 2016 – July 2016
During Microsoft internship, managed a small team leading up to and during the \\oneweek hackathon to create a project under NDA for the HoloLens. Did coding work with the team in addition to managing it.

16-Bit Processor – VHDL, Circuit CAD, Simulation, Design   March 2016 – May 2016
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.

Turf Wars – Rapid Fabrication, Modeling   March 2015 – May 2015
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.

Acoustic Triangulator – Signal Processing, Hardware Interfacing   March 2014 – May 2014
Created a system in MATLAB that took microphone inputs to triangulate the locations of sound sources.

Technical Skills and Interests

Languages and Tools: MATLAB, Mathematica, Python, C, Visual Basic, HTML, DataThief, Zeiss Blue, ImageJ
3D Modeling and Rapid Prototyping: AutoCAD, SolidWorks
Interests: Dance, Music, Music Production