Chiyoung Kim

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Education

Harvard College Expected Graduation: May 2017
S.B. in Electrical Engineering, Secondary in East Asian Studies GPA: 3.61
Relevant Coursework: Learning and Systems Architecture, VLSI Design, Computing Hardware
Thesis in Progress – Creating a Better Guitar Amplifier

Professional Experience

Microsoft – Enterprise/Telemetry & Diagnostics May 2016 – Aug. 2016
Intern – Program Manager, Designer, Developer Redmond, WA
Used Agile methodology in meeting with Enterprise and Privacy representatives to develop a product demonstrating telemetry privacy. Crafted specifications with user story and value proposition, designed UI/UX mockup and prototype in Visual Studio, scrummed with developer team of 4, and coded in C#. Product expected to reach millions of users, or thousands of enterprises.

Nichrome Icicle Cutter – Startup Sept. 2015 – May 2016
Co-Founder, Engineering, Product Management Cambridge, MA
Designed an icicle cutting device for Harvard Facilities Maintenance Operations with team of 5 through customer insights and controlled environment testing. Acquired provisional patent, 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
Used Agile methodology with members of the Extavour lab to design a tool for simultaneous analysis and imaging of multiple specimens. Iterated prototypes through A/B testing and user flow feedback, fabricated several MVPs and a final product.

Massachusetts Eye and Ear Infirmary – Experimental Cochlear Implants July 2014 – Aug. 2014
Researcher, PI: David Landsberger (NYU), Konstantina Stankovic (MEEI) Cambridge, MA
Coded a research tool in MATLAB that sends custom stimuli to cochlear implants, developing a prototype UI and undertaking moderated user tests. Beta tested using cochlear implants and testing hardware. 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 in MATLAB. Participated as subject in ear studies. Analyzed data on hair cells of the ear through computer image processing techniques in MATLAB. Presented findings.

NASA Jet Propulsion Laboratory – Mission Quality Assurance July 2012 – Aug. 2012
Researcher, PI: Henry Garrett Pasadena, CA
Developed a model of magnetic radiation around Uranus in MATLAB. 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
Managed a small team of 6 interns leading up to and during the Microsoft //onweek hackathon to create an AR mini-golfing game using the Microsoft Band and HoloLens. Accepted into the HoloHack Bootcamp. Conducted user flow tests, scrummed with team, coded in C# and Unity, successfully demonstrated MVP.

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 coded in Verilog.

Turf Wars – Rapid Fabrication, Modeling March 2015 – May 2015
Led winning team in a botball-style event with team of 5. Designed and built robot using modeling, laser cutting, 3D printing, molding, casting, and other mechanical fabrication methods. Scrummed with team, working in weekly sprints to reach milestones.

Technical Skills and Interests

Languages and Tools: C, C#, Python, MATLAB, Mathematica, Visual Basic, HTML, DataThief, Zeiss Blue, ImageJ
3D Modeling and Rapid Prototyping: AutoCAD, SolidWorks
Interests: Dance, Music (Classical Guitar, Violin, Ocarina, Senegalese Drumming), Music Production (House, Electronic)