

ALAN HONG

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EDUCATION

- Northwestern University, Evanston, IL** *Anticipated December 2016*
Master of Science in Robotics
- Rutgers University, New Brunswick, NJ** *May 2013*
BS in Mechanical Engineering, *summa cum laude* | GPA: 3.7/4.0

PROFESSIONAL EXPERIENCE

- SolidWorks Designer** *Oct 2014 – June 2015*
Doosan Infracore America, Systems Engineering *Pine Brook, NJ*
- ❖ Generated detailed 3D CAD models and drawings for custom-made automated manufacturing cells, including those for fixtures, robotic grippers, and end effectors
 - ❖ Prototyped and modified mechanical components used to train robot arms in simulated environments
 - ❖ Designed, ordered, and machined pieces for robotic systems and assemblies. Adhered to core principles of form, fit, and function to design for performance and reliability
 - ❖ Maintained up-to-date CAD files and BOMs for internal use, customer reference, and ordering using SolidWorks PDM

PROJECT WORK

- MSR Hackathon** *Sept 2015*
Northwestern University *Evanston, IL*
- ❖ Programmed a webcam mounted on servo motors to track the motion of a ball using ROS, Python and OpenCV
- Senior Design** *Sept 2012 – May 2013*
Rutgers University *New Brunswick, NJ*
- ❖ Constructed a functional robot designed to replicate the human larynx by means of pneumatic controllers, soft membrane technology, and 3D printed components made from CAD models.
 - ❖ Conducted literature review on biomimetic research and technology to reproduce biological sounds; developed techniques for utilizing modern soft-robotic technology, primarily in shaping airflow

SKILLS

Licensure: Engineer in Training (2014)

Programming: Python, C++

Software: ROS, Linux, Git, OpenCV, SolidWorks, ANSYS Workbench, MATLAB, Mathematica

Fabrication: Machine tools, Sheet metal, ANSI/ISO standards, GD&T, Rapid prototyping

LEADERSHIP & ACTIVITIES

Overseas Short-term Mission Trips; E-Nable 3D Printed Prosthetics