

# HENG YU

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## Education

2011 Bachelor of Science, Medical Device Engineering, **University of Shanghai for Science and Technology**  
(Outstanding Graduate)  
2012 Master of Science in Biomedical Engineering, **Arizona State University**

## Position Held

2010.12-2011.6 Product Manager assistant, Medtronic, Shanghai China  
2012.5-2012.12 Research Assistant, St. Joseph Hospital and Medical Center, Phoenix, Arizona  
2012.9-2013.5 Lab assistant, Department of Physiology, Midwestern University, Glendale, Arizona

## Academic Experience

**Research area: Biomedical Ultrasound, Medical Instrument, Biosensor, BioMEMS**  
**Practical Hardware Design for a Gas Concentration Detector of Human Exhaled Carbon Dioxide**  
**(National creative program for university student)**

Date: 12/2008-11/2010

**Investigation of glucose sensor selectivity and stability**

Date: 1/2012-4/2012

**Focused Ultrasound Stimulation on Cervical Ripening During Pregnancy**

Date: 11/2011-03/2013

**Treatment with inhibitors of the NF- $\kappa$ B Pathway on Dystrophic Muscle**

Date: 09/2012-05/2013

## Publication

08/2010 Applying Mat lab in Biomedical Signals Acquisition and Processing, Issue: Computer Applications and Software  
03/2013 Society for Gynecologic Investigation, March 20-23, 2013, Orlando, FL. (Poster Present)  
11/2013 Society of Neuroscience, Nov 9-13, 2013, San Diego, CA. (Poster Present)  
06/2014 Focused Ultrasound Waves Ripen Rat Cervix during Pregnancy, Journal: Ultrasound in Medicine and Biology

## Skills and Strengths

- Five years research assistant experience
- Good background knowledge about physiology and biochemistry
- Plenty of experience about Vivo/Vitro testing (rabbit, mouse, rat), cell culture and data analysis
- Be familiar with Single Chip Microcomputer and its assembly language
- Be familiar with the process of circuit design.
- Proficient in application software like Protel EE, Mat lab, Lab VIEW and familiar with such equipment as electric iron, oscilloscope, signal generator and controlled electric source.
- Language programming (C, C++, VB)