

April Yin

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Education: **Bachelor of Science, Biomedical Engineering, May 2017**
The University of Texas at Dallas – Richardson, TX

Academic Projects:
Spring 2016

EMG Controlled Video Game

- Implemented MyoWare Muscle Sensor for recording/detecting EMG analog signals
- Coded TI MSP Launchpad for jumping ball game with various levels
- Displayed EMG signals and game score for user feedback

Fall 2015

Electromyograph/Electrocardiogram

- Designed and constructed IA, high-pass filter, envelop detector, and comparator ladder circuits
- Applied multiple filter stages to eliminate noise from the body
- Implemented 3 LEDs to indicate strength of biosignal
- Converted EMG to ECG by switching input location

Spring 2014

Ping Pong Ball Launcher

- Programmed an Arduino to run the motor with needed initial velocity (with and without drag)
- Designed the launcher using SolidWorks
- Developed a program in MATLAB and LabVIEW that calculated the desired angle for the ball to land on the target

Work Experience:

June 2016 – Aug. 2016

Information Technology Operations Intern, University of Houston-Downtown

- Troubleshoot and repair computers (AiO, SFF, towers), printers, scanners, laptops, and monitors
- Configured Ethernet cables using T-568B wiring scheme
- Applied safe and proper cable management for all electronics installed
- Installed electronics based on customer's preference

Jan 2014 – May 2015

National Communications Coordinator, Residential Housing Association

- Represented The University of Texas at Dallas in boardroom during NACURH-related conferences
- Prepared and managed delegations for NACURH-related conferences
- Planned and implemented programs for students living on campus

Skills:

Proficient in Microsoft Office Products (Word, Excel, Power Point, Outlook)
Knowledgeable in MATLAB, LabVIEW, SolidWorks, Arduino, and C++
Excellent oral and written communication skills

Awards:

Rising Star Award Nominee

Fall 2014 – Spring 2015

- Recognized for being a student in the beginning years of their leadership experience at UT Dallas who has demonstrated exemplary leadership abilities

Activities:

Member, Intermural Flag Football

Aug 2016 – Present

Member, Biomedical Engineering Society

Aug 2015 – Present

Member, Autonomous Underwater Vehicles

Spring 2016

NCC, Residential Housing Association

Sept 2013 – May 2015

RHA Representative, Campus Housing Advisory Committee

Jan 2014 – May 2015