

Xu Si

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Education

Harvard University	Expected to graduate on Dec. 2017
Candidate for Master of Science in Electrical Engineering	
Beijing University of Posts and Telecommunications	Graduate on Jul. 2016
Candidate for Bachelor Degree of Engineering	

Academic Experiences

Moving Behavior Detection and People Recognition	Oct. 2016 – Present
<ul style="list-style-type: none">• Design a method to detect moving behavior in acceleration signals and realize people recognition• Implement dynamic time wrapping and matched filter to detect different moving behaviors• Use PCA and LDA to reduce dimensions and recognize people	
Study On Preprocessing of Music Melody Extraction	Mar. 2016 – May. 2016
<ul style="list-style-type: none">• Created a classification model to detect voice frames in polyphonic music• Analyzed the discrimination of speech and music signals• Implemented logistic regression and feature selection from MIRToolbox• Achieved 78% accuracy on voice detection of 648 music excerpts	
Signal Processing and Speaker Recognition based on MATLAB	Jul. 2015 – Aug. 2015
<ul style="list-style-type: none">• Developed a text-independent speaker recognition project• Used MFCC features with LBG Vector Quantization• Achieved 95% accuracy on general speaker recognition of 20 speakers	
Intelligent Temperature-Control Compressor Nebulizer System	Jul. 2014 – Sep. 2014
Principal Investigator, Group Work Project	
<ul style="list-style-type: none">• Designed a method to detect and control the aerosols temperature• Applied statistics and analysis of experimental data to achieve precision control• Organized all devices with MCU, planned circuits welding and modification• Perfectly produced the constant temperature aerosols for health care use	

Working Experiences

System Testing Engineer, China Telecom (Macau) Company Limited	Jul. 2015 – Aug. 2015
Internship, Full-Time, Network Department	
<ul style="list-style-type: none">• Conducted testing on 3G/4G networks and telecommunications links• Researched on CDMA, FFD-LTE network architecture, performed preventive maintenance, monitoring operation and technical requirements for server room modifications• Investigated the user complains' database to identify complaints and assessed their needs	

Social Experiences

Volunteered at Beijing Hongdandan Education & Culture Exchange Center	Apr. 2014 – Jun. 2015
Volunteered at Global Mobile Internet Conference (GMIC) Beijing	Apr. 2013 – May. 2013