Zhidan LUO

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EDUCATION	
University of Virginia	2018 – Present
Computer Engineering, MEng	VA, US
• Present GPA: 3.957/4; Degree expected in May. 2020	
University of Electronic Science and Technology of China	2014 - 2018
Electronic Information Engineering, BEng	Chengdu, China
• Overall GPA: 88.54/100; Rank: 13/240;	-
University of Glasgow	2014 - 2018
Electronic and Electrical Engineering, BEng, with Honors of the Second-First Class	Glasgow, UK
• Overall GPA: 18.832/22; Rank: 13/240;	
AWARDS & HONORS	
Top Winner of 2017 UESTC Technological Design Team Competition	June. 2017
UESTC Glasgow Academic scholarship (Top 5% of all)	Nov. 2017
First Prize of UESTC Merit-based scholarship	Nov. 2017
• Second Prize of UESTC Merit-based scholarship	Nov. 2016
Second Prize of UESTC Merit-based scholarship	Nov. 2015
EXPERIENCE	
Information Theory of Deep Learning	Aug. 2018 –
Team Leader (3 members group)	Present
 Verified the inadequacies of Information Bottleneck theory 	
• Information plane trajectory is predominantly influenced by activation functions	
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CNN and MLP Based Classification on Articles of Clothing

Jan. - Apr. 2019

Individual Project

- Built CNN and MLP neural network framework based on Keras for classification on articles of clothing in Google Colab cloud platform
- Based on Scikit-learn's grid search and cross validation to optimize parameters
- PCA and logistic regression models were used to compare the performance of neural networks

Sound Effects for Games and Interactive Applications

Jan. - Jun. 2018

Individual Project

- Developed new algorithms that will generate nonrepetitive sound effects, based on recorded sound samples and controllable parameters
- Discrete wavelet transform was applied to abstract features
- PCA was applied to abstract key features and morphed by random processing model

MMS (Magic Music System) Design

Oct. - Dec. 2017

Team Leader (6 members group)

- Designed and produced a hand-gesture-control music player
- Based on SVM, identified hand gestures to control actions of music through data collected by acceleration sensor

China Mobile Limited, Chongqing Branch

Research Intern

- Collected and analyzed wireless network performance data and drafted network quality report for department review
- Supported business operation evaluation

Artificial Neural Network Based Self Driving Vehicle

Jan. - Jun. 2017

Tracing Sub-Team Leader (10 members group)

- Designed and produced a self-navigating vehicle capturing data with a wide-angle camera
- Based on MLP feedforward neural network model and image processing technology, designed an algorithm for automatic tracing and turning of robot vehicles
- Acquired excellent planning and organizational skills

Photoelectric Effect Based ECG Auto-displaying

Feb. - Jun. 2016

Team Leader (3 members group)

Designed and assembled a portable Heart-rate Monitor with Mbed, photoelectric sensor and LED screen which enables electrocardiograph auto-display

EXTRAL-CURRICULAR ACTIVITIE

Animenz Live 2016 China Tour, Chengdu Concert

Volunteer Manager & Liaison Officer Apr. – Sep. 2016

Responsible for volunteer arrangements, promotion, budgeting and pre-event coordination

The 3rd UESTC ACG Music Festival

Piano Solo & Promotion Manager Mar. – Jun. 2016

Planned events venue, sponsorship and live broadcasting provider; Led online and offline promotion campaigns; Presented Piano performance

Summer Read, Safe Growth SUMMER CAMP

Volunteer July. 2016

Assisted local Women's Federation organizing library tour for children in difficulties. Encouraged children to be passionate and set life goals through reading, movie and fire brigade visiting

PERSONAL

- Programming Language: proficient in: Python, R, MATLAB, C, Latex, Markdown Also have basic ability: Java, Assembly, VHDL, Arduino
- Industrial Software Skills: Keras, TensorFlow, Scikit-learn, Jupyter-notebook, Google Colab, Spyder/PyCharm, RStudio, Overleaf, SCILAB, MS Office, Cadence ORCAD, OriginLab, Eclipse, Visual Studio
- A passionate and adventurous explore in both science and music. Enjoy cooperative efforts in creation and innovation.

Jan. - Feb. 2017