Zhikun Zhu

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Education

2017-2018 **MSc** System Control and Signal Proecssing
University of Southampton, Southampton, UK
First term average - 76/100

Modules:

Machine Learning - 83	*Adv Machine Learning* - 85
Computer Vision - 73	*Image processing* - 90
Signal Processing - 72	*Adv System & Signal Processing* - 78
Control System Design - 75	

Courseworks: Neural network and time series prediction - 100/100.
Subverting face detection - 70/100. Scene Recognition - 63/100.
Hybrid images - 84/100.

2013-2017 **BEng** Communication engineering
Southern University of Science and Technology, Shenzhen, China
Overall average score - 85/100

Major modules:

Communication Principles - 88	*Probability and Statistics* - 89
Wireless Communications - 94	*Signals and Systems* 93
Embedded System - 89	*Data Communication and Networking* - 85
Digital Circuit - 86	*Digital signal processing* - 83

Projects

April 2018 - Sep 2018 Machine Learning Applied Cognitive Radio
Final year project of postgraduate

This project trys to employ machine learning techniques to cognitive radios to enhance its performance in cooperative communication systems.

Technologies: MATLAB, machine learning, Wireless communcation, Cooperative communication.

Dec 2016 - June 2017 Full-duplex relay assisted cooperative communication system
Final year project of undergraduate

This project is based on a cooperative communication system that contains a source, a relay, and a receiver. The relay is designed working in full-duplex mode, which mean the upload and download link are transmitting with the same frequency and time slot. The main problem is the strong self-interference versus weak message signal.

Technologies: MATLAB, Wireless communcation, Full-duplex, Self-interference cancelation, Cooperative communication.

Oct 2016 - May 2017 Rectenna energy harvesting system
Student's Platform for Innovation and Entrepreneurship Training Program

The project's aim is to design a rectenna and rectifier filtering circuit to harvest the electromagnetic energy in the air to serve the sensor.

Technologies: MATLAB, Multisim, rectifier filtering, antenna design.

Jan 2016 - Mar 2016 Asia Supercomputer Challenge 16
A group competition

This competition ask groups to design a supercomputing system with the power constraint of 3000 watt. And optimize the system to some problems like Nature Language Processing using DNN. And our group won the prize of Excellence.

Technologies: Deep learning, DNN, Linux, parallel computing, computer architecture.

Work experience

May 2016 - Oct 2016 Tatfook, Shenzhen, Guangdong, China
Intern, software engineer

Accomplished a project that build and export 3D object on a website, which idea is inspired by OpenJSCAD. The project is part of a product that aims to inspire and teach children the basic of programming. The exported 3D files can be used in 3D Printing.

Technologies: Python, JavaScript, HTML5, CSS, Bootstrap, AngularJS, AJAX, jQuery, WebGL.

Adwards

- **Excellent student scholarship** in 2015-2016 and 2016-2017 academic year.
- **Third-class Scholarship** in 2015-2016 academic year.
- **Prize of Excellence** in ASC16 supercomputing challenge.

Skills

- Proficient in MATLAB, LaTeX
- Familiar with Python, LabView, C/Java, Unix.
- Familiar with web development tools mentioned above.