ZHEJIAN(JERRY) ZHAO

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SUMMARY

- Recently graduated M.Eng from the electrical and computer engineering department of Queen's university.
- Able to code with multiple programming language, including Python, C/C++, Matlab and Java.
- Strong fundamentals in data communication and possibility theory. Some experiences of analog IC design and hardware description language as well.
- Other proficient computer skills, such as Microsoft Office and Adobe Photoshop.
- Good interpersonal, time management, organizational and fast-learner.

PROJECT WORK

Analysis of ubiquitous caching for adaptive video streaming over named data network.

- Set up the Named Data Network, built a network topology, and implemented an adaptive streaming application in NS-3 system.
- Enabled two different caching schemes on NDN routers, LRU and LFU. Measured average throughput, bitrate switches and analyzed the differences.
- Tools: C++.

A model to choose the best college coaches of all time.

- As a leader of a three-people team to attend the modeling contest and constructed a mathematical model to choose the best college coaches.
- Wrote a web crawler to obtain the data needed from the website.
- Built models to choose the best coaches of all time via golden section search, analytical hierarchy process and data envelopment analysis.
- Compared our results to some rankings from other popular media and drew a conclusion and write the report.
- Tools: Python, Matlab, Excel.

Implementation of a robust algorithm for nonlinear system identification.

- Implemented a fast orthogonal algorithm for nonlinear system identification and time series analysis.

- Programmed the algorithm to solve the nonlinear system, tested the minimum square error and used the model to do predictions.
- Tools: Python

An intelligent vehicle based on FPGA.

- Acted as the leader of a three-member team responsible for assigning duties, communicating with the professor and writing the final report.
- Built and programmed a two-wheel-drive intelligent vehicle which finally can realize multiple functions including tracking, avoiding and measuring distances.
- Tools: VHDL.

EDUCATION

Queen's University   **Sep. 2015 – May. 2017**

Master of Engineering, Electrical and Computer Engineering

Tianjin University   **Sep. 2011 – Jun. 2015**

Bachelor of Engineering, Electrical Information Engineering

AWARDS

2014. 04   Honorable Mention in the 30th annual Mathematical Contest in Modeling

2013. 04   Advanced Individual in Summer Vacation Social Practice of Tianjin University.

2012. 12   Outstanding University Student Cadres of Tianjin University.