Peisheng (Chris) Guo

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EDUCATIONAL BACKGROUND

Rice University | Houston, TX   Expected 12/2018
    Master of Electrical Engineering

University of Liverpool | Liverpool, UK   06/2017
    Bachelor of Electrical Engineering & Electronics (First Class Degree)

Xi'an Jiaotong - Liverpool University (XJTLU) | Suzhou, PRC   06/2017
    Bachelor of Electrical Engineering (First Class Degree)

RELEVANT COURSES

Object-Oriented Programming	C Programming & SE	C++ Programming & SE
Design & Analysis of Algorithms	Introduction to Deep Learning	Computer Systems Architecture

SKILLS

Computer: Java, C/C++, Python, MATLAB, Assembly Language, Verilog HDL, Altera HDL, Altera Quartus II, Modelsim, Cadence, Multisim
Language: English, Mandarin, Cantonese

RELEVANT COURSE PROJECTS

University Student Management System   06/2015
- Developed a student & course database management system in C++ with command-line user interface
- Implemented functions: authority management, add/amend/delete courses and student information management

Bank Information System   12/2014
- Developed a bank information system in C with command-line user interface
- Implemented functions: customer registry & cancel, account registry & cancel, single or recurrent transfer, deposit, withdrawal

RESEARCH EXPERIENCE

Implementation of Data Encryption System on FPGA | Liverpool, UK   10/2016-04/2017
Summary: Designed a data encryption system on FPGA implementing Advanced Encryption Standard (AES) algorithm to perform high speed encryption for large amount data
- Analyzed the performance of AES hardware implementation with other data encryption algorithms
- Designed an encryption and decryption system based on AES on FPGA, achieving 65% speed of a system which values $12,000 designed by Algotronix®
- Transmitted the input and output data using control panel of DE2 FPGA

Modelling Electrical Properties of Thin High-K Gate Stacks| Liverpool, UK   10/2015-03/2016
Summary: Modeled electrical properties of High-K (HfSiO) material transistor using MATLAB
- Measured high-frequency capacitance-voltage (CV) statistics of the transistor and plotted the properties
- Developed algorithms to model various parameters of the High-K material transistor
- Constructed a model using the developed algorithms

EXTRACURRICULAR ACTIVITIES

Student Club Service Center | Co-Founder & Vice President | XJTLU | Suzhou, PRC 09/2013-06/2015
- Set up and ran the center to perform management and service to student clubs and associations

Club Program Office | Vice Minister | XJTLU | Suzhou, PRC   09/2013-06/2015
- Led a section of 20 acting as liaisons to connect student clubs, associations and school officials.