Kaixin Yang / 杨凯欣

Personal Information

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Education

Viterbi School of Electrical and Computer Engineering, University of Southern California,

Los Angeles, CA   Aug.2019 – May.2024

Ph.D. in Computer Engineering

Department of Electronics, School of Electronics Engineering and Computer Science,

Peking University, Beijing   Sept.2015 – Jul.2019

B.S. in Electronic and Information Science and Technology

Anqing No.1 Middle School, Anqing, Anhui   Sept.2012 – Jul.2015

Anqing Foreign Language School, Anqing, Anhui   Sept.2009 – Jul.2012

Research Experiences

Research on Satellite Communication System and Network   Oct.2017 – Present

Advisor: Prof. Na Yi   *Institute of Advanced Communications*

- Did a literature review for distributed relational databases, learned the principles and advantages of developing them systematically, and examined the feasibility of highly-reliable distributed relational databases by using Tencent's PhxSQL as an experimental example.

- Helped design a distributed storage scheme for the satellite communication system and simulate satellite communication channel.

- Exploring the way to implement applications on the GPU platform with OpenCL.

Intel Cup Undergraduate Electronic Design Contest   Apr.2017 – Jul.2018

- Designed *Lost and Found Cabinet with Personal Information Protection* based on Intel embedded platform called *Up^2 Board*, which aimed at facilitating retrieving the lost property.

- Established the database of the system and implemented the Web server based on Flask framework.

Experiment on Intelligent Hardware Applications Course Project   May.2018 – Jun.2018

- Learned the methods of using GPIO, AD/DA and sensors on the platform *Raspberry Pi.*
- Developed the smart desktop device based on *Raspberry Pi 3B* board, with applications of calendars, reminders, weather forecast and speech control.
- Implemented offline speech recognition with CMU's PocketSphinx Speech Recognition toolkit, as well as online speech recognition and speech synthesis with Baidu Cloud Engine's APIs.

Skills

Programming language: C++, C, Python, MASM, C51, OpenCL C, SQL, Verilog

Software & platform: Matlab, Cadence, LaTeX, TensorFlow, Linux

Honors and Awards

2018   Excellent Presentation in The Sixth Peking University Young Scientists Symposium on Informatics

2018   Third Prize in 2018 Intel Cup Undergraduate Electronic Design Contest

2017   Award for Academic Excellence of Peking University in academic year 2016-2017

2017   Level 3 in National Computer Rank Examination

2016   First Prize in College Physics Contest awarded by Beijing Physics Society in year 2016

Extracurricular Activity

Piano Association of Peking University   Mar.2017 – Present

Member of Publicity Department

Designed posters and edited essays.

Student Affair Office, EECS, Peking University   May.2016 – Jul.2018

Student assistant

Dealt with daily affairs of EECS undergraduate students.

Hobbies

Photograph, Photoshop, piano, basketball, soccer