

HUADI DAVID ZHU

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Education

Master of Science | Computer Engineering | May 2019

*University of Florida
Gainesville, Florida*

Bachelor of Science | Electrical Engineering | June 2017

*Nanjing University of Science and Technology
Nanjing, Jiangsu, China*

Course Work

- Internet of Things Design (Special Topic)
- Wireless Networks
- Wireless Communication
- Image Processing & Computer Vision
- Big Data Ecosystems
- Computer Communication
- Computer Architecture
- Power Electronics (I & II)

GPA: 3.7/4.0 (91%)

Lab Experience

Wi-Fi Based Indoor Localization System

June 2018 – Present | Gainesville, FL

- Developed a precised Wi-Fi based indoor localization system for unknown environment
- Led the team for hardware setup, e.g. configuring Raspberry Pis to work as access points
- Leading practical experiments and data analysis

Autonomous Smart SDN

June 2018 – Present | Gainesville, FL

- Implemented an ONOS SDN and tested its resistance to DDoS attack in half-physical experiment
- Benchmarking ONOS SDN controllers
- Developing a machine learning model for data analysis

Projects

“Flow-Radar” Smart Home Water Control System

August 2018 – Present | Gainesville, FL

- Setting up sensors to measure water flow, pressure and temperature and feed data to the server via Raspberry Pi

Online Chatting Windows Application

November – December 2017 | Gainesville, FL

- Led a group on designing a user-friendly windows application based on TCP protocol with Berkeley socket ports for reliable online chatting among several clients

Text Recognition System

March – May 2018 / Gainesville, FL

- Designed a system for text recognition from images using deep learning algorithms and convolutional neural network

Wireless Communication Protocol Stack Program

November 2016 – June 2017 / Nanjing, Jiangsu, China

- Developed a program for wireless communication between several terminals on the data link layer, network layer and transport layer

Research On Victim Cache

October – December 2017 / Gainesville, FL

- Led a research on victim cache, conducting experiments and analyzing its utilization, enhancement in system performance and holdbacks from its generalization

Work Experience China Telecommunication Technology Labs (CTTL)

Research Intern / July – September 2016 / Beijing, China

- Tested RF metrics on mobile phones for LTE standard requirements.
- Brought up ideas about 5G standards on conference.
- Well completed report files and change request documents.

Research Interests

- Internet of Things
- Software Defined Network
- Multi-Antenna Wireless Systems
- Wireless Sensors

Publications

- **Huadi Zhu**, “Future Prospect of Three-Dimension Printing”, *Developing*, Jan. 2016, CN6201083/F
- Yuanyuan Zhuang, **Huadi Zhu**, Liyun Qi, “Core Analysis of the Floating Population in China”, *Future and Development*, Nov. 2015, CN11-1627/G3

Skills

- High-level languages: C++, C#, Java, Python
- Algorithm development environments: Matlab, LabVIEW
- Hardware configuration: Raspberry Pi, Arduino, 51 SCM
- Machine learning and deep learning
- Data structure and analysis

Honors

Achievement Award Scholarship (Fall 2017, Spring & Fall 2018)

Visa

F-1, citizen of P. R. China