HUADI DAVID ZHU

Homepage @ https://davidgiovatti.github.io/

Dept. of ECE, University of Florida   e-mail: zhuhuadi@ufl.edu
1 Fletcher Drive, Gainesville, FL 32611-7500   Phone: +1 (352)-745-4517

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 resistence 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 Protocal 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