Zhicheng Ding

646-575-6045 | zhicheng.ding@columbia.edu
514 West 114 Street APT 3D, New York, NY, 10025
https://www.linkedin.com/in/zhicheng-ding-a80595b3
https://zhichenglab.co

EDUCATION

Columbia University **New York, NY Jan, 2018 - May, 2019**
- M.S in Computer Science
- RA at Columbia University in Center for Computational Learning System(CCLS) - Supervisor: Albert Boulanger

South China Normal University **Guangzhou, CN SEP, 2012 - Jun, 2016**
- B.S. in Electronic Information Engineering, GPA: 3.47/5.00 (Top 3%)
- Was conferred onto the "Outstanding Graduate" of the department (50/630)
- First-class award for academy excellent for three consecutive years (2013, 2014, 2015)

PROFESSIONAL EXPERIENCE

WellAV Technologies Ltd. **Software Engineer** **Huizhou, CN Mar, 2016 - Jul, 2017**
- Developed controller board (C++) and compiling system (Python) for new 4K product UHD600.
- Optimized MRD compiling system: shorten build time from 27hrs to 5hrs and easily manage build file (Python).
- Maintained MRD products by fixing bugs (C++, Python) and refactor the code (C++).

Ericsson **Software Development Engineer (Intern)** **Guangzhou, CN Jul, 2015 - Dec, 2015**
- Participated in the development of Test-Automation system based on deep learning: responsible to test report analysis and generation based on deep learning. This system has saved QA team for almost 10000 man-hours by 07/2017 and improved the robustness of products by 13%.

ACADEMIC EXPERIENCE

Intelligent Building Management based on Deep Reinforcement Learning **Jan, 2018 - Now**
- Supervisor: Senior Staff Associate - Albert Boulanger.
- Goal: Design the Deep Reinforcement Learning algorithm for IBM and implement the demo in skyscraper in NY.
- Currently, working on designation of deep reinforcement learning algorithm.

Moving Object Tracking and Detecting based on Deep Learning **Jun, 2015 - Jun, 2016**
- Supervisor: Associate Prof. Xiaohui Hu.
- Developed tracking and detecting system based on deep learning (Python, CNN).
- Proposed an algorithm, which shortened computing time by 9.6% and increase the recognition accuracy by 17.2%, comparing to Lucas-Kanade Optical Flow algorithm.

Study on the Networking of Wireless Sensor Networks in Intelligent Labs **Jun, 2014 - Jun, 2015**
- Purpose: to study how to establish a wireless network based on ZigBee in Smart Labs to build an intelligent Internet of Things system integrated lights, fans, air-conditions, fire alarms, computers, and experimental apparatus.
- Developed wireless communication function of ZigBee, and GUI to control lab apparatus (C++, Python).
- Successfully applied utility patent which has been listed above as the second author.

PUBLICATION & PATENTS

- Publication: Weipeng Hu, Zhihua Li, Zhicheng Ding. Traffic Emergency Guidance Gloves Based on ZigBee. Engineering Technology. 2015, 0 (8); 109-109.
- Utility model patent： Bin Zhou, Zhicheng Ding, Chibin Kong, Changtao Lu, Sailing He. A Field Early-warning Wireless Monitoring System based on Fiber Grating Sensor. Patent Number: ZL. 2015 2 0015530.3. Issued date: 2015.05.20.
- Copyright of Computer Software: Weipeng Hu, Zhicheng Ding. The Fractal Algorithm and Fractal Tree Software based on VC++ MFC. Patent Number: 2015SR156686. Issued date: 2015-08-13.

SKILLS

- Programming: Python (advanced), C/C++ (advanced), Linux (fluent), Algorithm (fluent), Matlab (Familiar)
- ML experience: regression, classification, clustering, NLP, CV, deep learning.