Li Dongda

Gender: Male
Date of birth: 05/08/1993
E-mail: 18310682633@163.com
Tel: 86-18310682633
Website: http://dongdongbh.tech/

Education

School of Automation and Information Engineering
Xi'an University of Technology **09/2011-06/2015**
B.S., major in Automation
Advisor: Yingming YI
Specialized courses included automatic control theory, signal and system analysis, motion control technology, computer control technology, sensor technology, C++ language, embedded system, circuit theory, etc.

Research Experience

Research Assistant **08/2016-Present**
The Department of Compute Science
The University of HongKong
Supervisors: Francis C.M. Lau, Yuexuan Wang and Heming Cui
Research Area: Robotic Network, Wireless Sensor Network, Internet of Things

Research Assistant **07/2016-07/2017**
Unmanned Aerial Vehicle Autonomous Control Institute
Beijing Institute of Technology
Supervisor: Defu Lin
Research Area: Unmanned Aerial Vehicle Control System, Navigation System, Data Fusion

Work experience

Embedded Software Engineer **07/2015-06/2016**
Beijing Zhonghangzhi Technology Co., Ltd
Responsibilities: Design of new unmanned helicopter flight control software.
Include hardware BSP development, operating system transplantation and application, navigation algorithm design, etc.

Publication

- **Published paper**
  - Dongda Li, Yuexuan Wang, Zhaoquan Gu, Tong Shen, Tianhao Wei, Yongqin Fu, Heming Cui, Mingli Song, Francis C. M. Lau. Adler: A Resilient, High-Performance and Energy-Efficient UAV-Enabled Sensor System. http://www.cs.hku.hk/research/techreps/document/TR-2018-01.pdf. 2018-01

- **Under review**
  - Augmenting Wireless Sensor Networks with Unmanned Aerial Vehicles. Submitted to SenSys 2018
  - Malak: An Intelligent, High-performance and Resilient Software Defined Wireless Sensor Network System. Submitted to Mobicom 2018

Research Projects:

- **Software Defined Wireless Sensor Network System** **12/2017-03/2018**
- **UAV-Enabled Sensor System** **08/2017-11/2017**
- **MBZIRC-2017 International Robotic Competition** **01/2017-03/2017**
  UAV to locate, track and land on a moving vehicle automatically (Champion)
- **Autonomous takeoff and landing of the intelligent quadrotor**(Thesis) **12/2014-06/2015**
- **Visual tracking gimbal system design** **08/2014-11/2014**
- **Simulated Flight Control System Based on SINS** **08/2013-12/2013**
- **Two-wheel self-balancing vehicle** **11/2012-06/2013**
- **AVR-based multi-function smart vehicle** **08/2012-11/2012**

Professional skills

- Familiar with the principle of inertial navigation, integrated navigation algorithm and application, can be carry out aircraft attitude calculation and control algorithm design;
- Master Matlab control system modeling and simulation capabilities;
- Familiar with Robot operating system(ROS) programming and application;
- Master the C / C + +/Python language, data structure, with good code preparation habits;
- Master micro-controller programming and debugging capabilities, with 5 years of embedded system development experience.
- Familiar with IOT system design and programming.
- Master the Linux system programming;
- Familiar with GIT and Academic Writing;

Awards

Champion Mohamed Bin Zayed International Robotics Challenge (MBZIRC) 2017. 03/2017
Grand Prize The eighth Shaanxi province outstanding graduation design 06/2015
Second Prize Xi'an University of Technology, 2014 Emerson "CONSIDER IT SOLVED" 08/2014
Outstanding Officer of Automation Technology Association, Xi'an University of Technology 05/2013
First Prize The 21st session of the " Innovation Prix" science and technology competition 11/2012

Research Interests

Robotic Control and Navigation, Motion Planning, Robotic Network

---

School Role

Minister of Xi'an University of Technology Automation Technology Association **09/2013-07/2014**