Xiaoming Song

- **Graduate School** : University of Shanghai for Science and Technology
- **Highest Academic Degree** : Master
- **Date of Birth**: 1989.5.5 **Gender**: Male **Political Status**: CPC Member
- **English Level**: CET-6（502） **Bachelor**: Jianghan University
- **Mobile Number**: 183-0178-5769 **Email**：miko_song@163.com

Education

Master **Control Theory and Control Engineering** 2013.9～2016.4

- **Research Field**: image processing, robotics, intelligent control
- **Main Course**：Analog Electronics Circuits, Digital Electronic Technology, Communication Principle, Algebra, Robotics, Digital Image Processing, Optimal Control, Linear Systems Theory, Intelligent Control

Graduation Thesis： " Robot control based on ADRC "

Research Projects

Robot Remote Surveillance and Control System 2014.10～2014.12

- **Platform**：visual studio2010, Kinect, opencv2.4.4, Jrtp, H.263 encoder and decoder
- Based on C/S framework, designed a robot system to realize remote surveillance. The system has video transmission, remote command transmission, obstacle avoidance, object detecting and tracking, remote manipulator control function, and so on. This project was summed up as a paper, published in the China Intelligent Control Conference and won the Best Paper Award

Selected Publications

1.Manipulator decoupling control based on active disturbance (Springer Verla published)

Retrieving information: Lecture Notes in Electrical Engineering. Springer, Berlin, Heidelberg, 2016: 231-240.

2.Trajectory tracking of nonholonomic mobile robots via discrete-time sliding mode controller based on uncalibrated visual servoing

Retrieving information: Computational Intelligence, Networked Systems and Their Applications. Springer Berlin Heidelberg, 2014: 342-350.

- **The software copyright**: visual tracking based on trajectory control software (Authorized) **Registration No.**：2015SR045933

Work Experience

2017.8-current Shanghai Shanghai Hongzhu investment company Software Engineer

Collaborate with colleagues (employees who left from Ericsson, Bell, ZTE had been worked more than eight years with the title of Senior Software Engineer) set up a software R&D department. According to the company's business, design and implement a set of financial trading systems. Participate in the design and implementation of the basic framework. realize the application according to the customer's requirement. All the company’s transactions through our system. This system has been stably running for one year without any critical bugs.

- **Platform**:： windows, git, visual studio2017; c++(c++11/14), python
- project： design and implement the stock transaction system: trade client, account center and analyzer, price provider, price proxy.
- 1.trade client: order, risk control and all kinds of amount inquiry, transaction data summary.
- 2.account center: account info management; summary stock amount and order; distribute the trade info to trade client
- 3.analyzer: analysis the market info by using the tensor flow to predict the stock trade opportunity.
- 4.provider: adapt the third-party market info library, check the correctness of the data, distribute the market data to trade client.

2015.11-2017.8 Shanghai Ericsson (China) communication Co. Ltd. Software Engineer

- Internship period: 2015.11-2016.3
- **Platform**: redhat, SUSE, gcc, DPDK, Jenkins, Gerrit
- project：core network simulation system development and testing based on DPDK
- 1. System counter feature, solution, development and testing
- 2. Aware Policy-Based Routing(APR) feature, solution, development
- 3. Network address translating(TGNAT) feature, solution, development
- 4. Internal message queues solution, development and testing

Ericsson 2017 Q2 spot award (Shanghai site packet core test solution DU)

Internship

2014.6-2014.9 Shanghai HuaWei Technology Co. Ltd. Algorithm Engineer

- **Platform**：matlab. visual studio. sqlite3
- As a member in network node topology modeling project, focus on extracting the collected data and processing node traffic data. To predict traffic bandwidth, we analyze historical node traffic data. It is based on neural network, wavelet analysis, regression analysis.

2014.12-2015.8 Shanghai INESA Scientific Instrument Co., Ltd. C ++ Engineer

- **Platform**: Hass hi3516 chip camera, MFC, Linux, Skin Magic
- 1. Develop image preview module, effection just like Baidu image viewer.
- 2. Sai He camera OCX extended plugin development: communication protocols, parking detection module, video transmitting module, system configuration management module, brake control module.
- 3. Hass camera exposure driver. IPC camera command parsing module. RS232 / RS485 serial IO port expansion tools.

Awards

Outstanding student cadres. Shanghai Municipality outstanding graduates

Career Skills

C/C++/JAVA Software Development/Image Processing/English

- **Primary Skills:** SQL, Perl, JS, Assembly Language, Data Structure , Open CV, Excel, Word, Visio, PowerPoint, Latex, Markdown , Shell, Matlab, JAVA, git, gerrit, jenkins
- **Intermediate Skills:** C++, C, Python

Hobbies

Movies/Travel/Table Tennis/Football

Embracing technology, pursuing perfection. Full of patience, creative thinking, quick learning ability, adapting ability.

- Technical hobby: artificial intelligence, machine learning, image processing, multimedia video codec, parallel programming, high-performance servers, databases, mobile and desktop application.