

Liang Dong

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Summary

An enthusiastic first year CS PhD student looking for a software development Intern for the Summer of 2015. I have experience in data analysis, computer vision and human computer interaction. I'm looking for an internship that will enhance my programming skills.

Education

North Carolina State University Raleigh, USA
PhD student in Computer Science Aug. 2014 – Jun. 2018(expected)

- Research Area: Human Computer Interaction, Knowledge Discovery

Nankai University Tianjin, China
M.S. in Pattern Recognition and Intelligent Systems Jun. 2014

- GPA: 88.2/100, Core Courses: Algorithm Design & Analysis, Pattern Recognition, Computer Vision

B.E. in Automation Jun. 2011

- GPA: 87.9/100, Key Courses: Data Structure, Computer Organization, Database Principles

Technical Skills

Languages: C/C++, Python, Java, HTML, CSS, Matlab

Software Frameworks: Eclipse, Visual Studio, VML, MJPEG, TCP/IP, Apache

Algorithm: Machine Learning(Support Vector Machine,Decision Tree), Computer Vision

Systems: Linux, Windows, Single-Chip Microcomputer

Research Experience

Research Assistant Nankai University
Posture Recognition Based on RGBD Images and Its Application Oct. 2012 – May 2014

- Recognized gestures based on RGBD images using **Support Vector Machine** and **Random Forest** algorithm
- Applied gesture recognition in a virtual simulation platform by **OpenGL** with team
- Designed **Human Robot interaction** for our home service robot based on **Microsoft Kinect** gestures

Global Visual System to Locate High-Speed Mobile Robot Oct. 2011 – Oct. 2012

- Built a global visual system based on **OpenCV** to locate a high-speed mobile robot
- worked on location experiments of High-speed Wheeled Mobile Robot
- Validated robot dynamic model in **Matlab Simulink**

Object Recognition Based on the Fusion of Multi-sensor Information Sep. 2009 – Dec. 2010

- Carried on the extraction and matching of **SIFT** feature points using **optical flow tracking** with team
- Accomplished moving target detection from static scenes by identifying **clusters** of features with team
- Won the third-grade award of The National Undergraduate Innovative Experiment Program(8/119) for our project

Work Experience

Ling Jie Technology Tianjin, China
Software develop Intern Summer 2012

- Connected Pan-tilt-zoom camera Panasonic HCM581 with **Apache Axis** web service
- Took part in the implementation of a **web observatory system** based on **LAMP software stack**
- Assisted an associate Professor with completing the NSF Application Field Ecological Observation

RobotPhoenix Inc. Jinan, China
Computer Vision Intern Summer 2011,2013

- Developed **image processing software** to detect defects in plastic USB adapters
- Built a **stereo vision** system to detect and locate the object in the assembly line(Accuracy:1cm)
- Implemented a **human computer interaction** interface in Windows

Awards and Honors

Samsung Scholarship, Samsung 2010
The first Prize in National Undergraduate Electronic Design Contest Tianjin(Leader of the team,7/398) . . . 2009
Excellent Student, Nankai University(3/35) 2008,2009,2010