Minghui Zhou

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EDUCATION

09/2010 - 03/2013 ***Shanghai Jiao Tong University*** Shanghai, China
Degree: MS in Aerospace Engineering (Image Processing)
GPA: 3.21/4.0 (Top 20%)

09/2006 - 07/2010 ***Northeastern University at Qinghuangdao*** Hebei, China
Degree: BS in Measurement and Control Technology and Instrumentation
GPA: 90/100 (Top 3%)

PUBLICATION

Zhou Minghui, Hu Shiqiang, Chen Sicong, **Cylinder Unwrapping and Real-time Target Tracking Based on Omni-directional Camera**, Published in **Computer Engineering**, 2013, Vol. 39, No. 11

PROJECTS

10/2011 - 09/2012 ***The Real-Time Tracking System Based on the Omni-directional Mobile Robot***

- To handle the large range of complex scenes in tracking system, I used omni-directional camera to capture 360-degree video, and applied cylinder unwrapping algorithm to transform the panoramic image from omni-directional image, which effectively solved the distortion problem of panoramic image.
- After that, CAMShift combing with Kalman filter algorithm is used to track the moving target in real time
- Experimental results demonstrate that the proposed algorithm realizes a real-time and robustness target tracking under large-scale and complex scenes, which contains moving target occluded, temporary disappearance or interference from objects with same color.

06/2011 - 09/2011 ***Counting People in Crowded Scenes***

- Did some Research and Compared the advantages and disadvantages between several image preprocessing algorithms, foreground segmentation methods and target tracking algorithms.
- Designed a small system based on Visual Studio, MFC, OpenCV, C++ and the algorithms mentioned above to implement people counting in crowed stress.

10/2009 - 05/2010 ***The Solar Heating System Design Based on 51 Single-chip Microcomputer***

- Designed analogue system (including the smallest SCM system, A/D conversion circuit, a display circuit, a clock circuit, drive control circuit, etc.) of the solar heating controller to achieve automatic control of water temperature and water level, based on 8051 single-chip microcomputers.

02/2009 - 03/2009 ***The design and implementation of the Dc Digital Voltmeter***

- Designed Dc Digital Voltmeter, and the range it could measure was 0 – 5V.

INTERNSHIP & WORK EXPERIENCE

02/2017 – 09/2017 ***Citi Bank***, Technical Leader of RPA

- Lead a small team with 5 colleagues to support RPA system in company.
- Support Robotic Processing Automation (RPA) and debug issues with developer to fix bugs.
- Setup RPA environment and maintain the stability of the system.
- Develop scripts to setup environment automatically.

02/2014 - 02/2017 ***Microsoft***, Technical Support Engineer of CSS

- Provided enterprise customers with consulting and training services of Office and Yammer.
- Debugged source code in allusion to product defects and assisted the product group to fix bugs.
- Fixed the critical issues for premier customers timely.
- Integrated the customers' demands and assisted in designing software.

04/2013 - 02/2014 ***Marvell***, Software Engineer of Mobile Segment

- Followed the daily report of Auto-Test results, analyzed the root causes and resolved framework issues.
- Enhanced Auto Test Form function and write the User Manual.
- Developed PRIDE tool to edit Auto Test Case for cellphone.
- Made auto package/build/test for PRIDE tool, and developed PRIDE tool test suit.

06/2012 - 09/2012 ***FairChild Semiconductor***, Intern of Mobile Segment

- Welded the chip products, tested a variety of electronic devices and collected data and draw figures.
- Familiarized with oscilloscope and multi-meter, and learnt to draw circuit schematic and PCB board.

AWARDS & HONORS

- 2007 - 2010 *The 1st Prize Scholarship(Twice) & The 2nd Prize Scholarship (Four Times)*
- 11/2009 *Outstanding Student Cadre*
- 10/2008 *Advanced Individual*
- 04/2007 *Excellent Student*

PROFESSIONAL SKILLS

- Familiarize with **Single-chip Microcomputer**, **Circuit**, **Automatic Control Theory.**
- Possess excellent knowledge of **Linux**, **Windows server**.
- A good master of languages: **C**, **C++**, **assembly language**, **JAVA**, **JavaScript**, **Shell script**, **XML**.
- Familiar with Tools like: **Visual Studio**, **OpenCV**, **Matlab**, **SQL Server**, **Mongo DB**.
- Master the algorithms of **Image Processing** and methods of **Machine Vision** and **Pattern Recognition**.