Fei Zhan

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Technical Skills

Programming Languages

- C++
- C
- MATLAB
- JavaScript
- Python
- PHP

Operating Systems

- Windows
- Ubuntu

Education

2012-Present **Master of Science, Computing Science**, *Simon Fraser University*, Canada.
Courses: Design/Analysis Algorithms, Machine Learning, Data Mining, Geometric Modelling in CG, Natural Lang.Process

2007-2012 **Bachelor of Engineering**, *Zhejiang University*, China.

Industrial Experience

Jan-Apr 2014 **Software Development Engineer**, *BigPark, Microsoft*.
- Participated in the development of a web-based dashboard for Xbox data analysis.
- Used JavaScript and C#.

Jul-Sep 2011 **Test Engineer**, *Alibaba.com*.
- Participated in the development and test of the search engine, and conducted unit test, code review, and document maintenance.
- Used C++, Linux, and Shell.

Programming Projects

Jan-Apr 2014 **Web-based Dashboard System for Xbox Statistics**, *BigPark, Microsoft*.
- Designed a dashboard system for testing on Xbox statistics and analyzing user activities.
- Written in HTML5, JavaScript, and C#, used libraries such as D3.js.

2012-2014 **Web-based Configurable Dashboard Platform for ROS**, *Autonomy Lab, Simon Fraser University*.
- Designed a platform for Roboticists to test and demonstrate with various widgets in browsers, including 2D/3D map, data plotting, etc.
- Written in HTML5, JavaScript, and PHP.
- Dashboards can be created by dragging and dropping, which is easy to use, simple to extend, and welcomed by Roboticists.

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Programming Projects (Continued)

2010-2011 **RoboCup Small-size League**, *Zhejiang University*.
- Developed path planning algorithm, designed the soccer defence strategy, and reconstructed original code into scripted code.
- Won the Final Eight in RoboCup World Competition, and the Second Prize in RoboCup China Competition.
- Written in C++, used VisualStudio to develop, and TortoiseSVN for version control.
- Improved the team's defensive ability and reduced the component's goal rate.
- Simplified the process of changing parameters on-site by reconstructing into scripts.

2009–2010 **Standard Platform Match, Supcon Cup Robotics Competition**, *Zhejiang University*.
- Designed robot control algorithm in order to navigate, shoot goals, and perform creative shows.
- Led a team of three to win the Championship of Standard Platform Match, Supcon Cup Robotics Competition.

Research Projects

2011–2012 **Intelligent Security Patrol System based on NI DaNI Mobile Robot Platform**, *Zhejiang University*.
- Worked on National Instruments Robotics Starter Kit and LabVIEW.
- Designed a patrol system based on network camera and VFH path planning algorithm.
- Won the Second Prize in NI National Academic Paper Contest and Excellent Graduation Thesis.

Honors and Awards

Jun 2012   Second Prize in NI Academic Paper Contest

Jun 2012   Excellent Graduation Thesis

Jul 2011   Final Eight in RoboCup World Competition

Aug 2011   First Prize of Research and Creation Scholarship

Jul 2010   Second Prize in RoboCup China Competition

May 2010   Championship of Standard Platform Match, Supcon Cup Robotics Competition

Sep 2008   Excellent Academic Scholarship