ZHAO XIFENG RESUME

zhaoxifengjeff@126.com

shanghai, china, 86-18621677553

Education Background

- During 1999~2003, Mathematics in Northwestern Poly-technical University of China.
- Self-learned artificial neural network technology after university
- Learned computer graphics technology at work
- Deepened data structure and algorithm analysis at work

Technology experiences

1. 8 years of large scale commercial software development for Autodesk Inventor.
2. 6 years of software developing experiences for aviation systems
3. I am proficient with C/C++, C#, STL, Data Structure and Algorithm, OpenGL and Image process.
4. I am comfortable with: Boost, Qt, JIRA, Gerrit, Git, linux, matlab, SQL and Perforce.
5. I am good at researching new problems. **I seriously mean it.** An example is that I learned the artificial neural network technology thoroughly by myself through reading books and a lot of papers and writing some code; so that I am now very clear about the details of **DNN and CNN** technology.

Employment Experiences

1. Nov. 2003 ~ Jan. 2011, 8 years of working at Autodesk
2. Jan. 2011 ~ today, nearly 6 years of working at AVIAGE

Some Project Experiences

1. **Point Cloud:** It is an Autodesk research project. The target of this project is to research the point cloud process technologies and leverage Autodesk product family to support point cloud process functionalities. The project produced a lot of good results which included automatically plane extraction, cylinder extraction, sphere extraction and semi-produce the drawing of the point cloud. The distributed computing and rendering technologies are implemented in this research project. The OCTREE and KD-tree are both implemented for fast search near points of a given point. And also the HOUGH transform and MEAN SQUARE LEAST fitting algorithm are implemented to extract lines, circles, planes, spheres and cylinders.
2. **Text Recognition:** The project is to develop a text recognition engine. The recognition algorithm mainly focused on ANN related technology.
3. **Remote Gateway modeling**: I lead this software tool project to support aviation avionics system configuration. The tool greatly improved aviation ICD configuration efficiency and quality. I introduced scrum and git to the project team to build a productive team facility, which enhanced the project's success