ZHAO XIFENG RESUME

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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
- Learned Effective C++ at work

Technology experiences

1. 8 years of large scale commercial software development for Autodesk Inventor.
2. I am proficient with C++, STL, git and visual studio.
3. I am comfortable with: Boost, Qt, JIRA, Gerrit, linux, matlab and Perforce.
4. I am good at researching new problems. An example is that I learned the artificial neural network technology thoroughly by myself through reading book 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. **Shrink wrap:** It is an Inventor source code project. The project target is to make large Inventor assembly file size lightweight and protect the intelligent property by hiding the detail information. The trick is to use computer graphics rendering technology cleverly, so that an assembly can be captured from the visible surface by discarding the inside structure information.
3. **Text Recognition:** It is an interest led project. My friend and I are devoted to exploring a text recognition engine. The recognition algorithm mainly focused on ANN technology.
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