

# 潘伟洲

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*Keep a simple and stupid mind.*

## Skills

### Systems

Operating Systems GNU/Linux(ArchLinux, Ubuntu, Linux Mint, RedHat, Fedora), Windows

Window Managers Awesome, xfce, KDE, Gnome2, Gnome3, Unity, Cinnamon, Mate

### Development

Languages Python, Shell/Bash, C, Java, Pascal, Matlab

Formats Markdown, Org-mode, Textile, reStructuredText, XML, YAML/JSon

Web HTML, CSS, Mustache, Ruhoh, Wordpress, Twitter-Bootstrap, Web.py

Databases MySQL, SQL Server

Editors Emacs, Vim, Subl, Visual Studio, Eclipse

Document Doxygen, CHM

Methods Design Patterns, Object Oriented Development, Test Driven Development

Source Control Git, SVN, GitHub, Google Code

### Office and tools

Office Microsoft Office, WPS, OpenOffice/LibreOffice

Graphics TikZ, Graphviz, Ditta, Gimp, Inkscape, Photoshop, Fireworks, CorelDraw, Visio, yEd, Calligra Flow

Productivity Mind Map, GTD, Evernote, Dropbox, Org-mode, AutoHotKey, Snippets, Gist

Wikis MoinMoin, MediaWiki, Github Wiki

Edition  $\text{T}_{\text{E}}\text{X}$ ,  $\text{L}_{\text{A}}\text{T}_{\text{E}}\text{X}$ ,  $\text{X}_{\text{E}}\text{L}_{\text{A}}\text{T}_{\text{E}}\text{X}$

Touch Typing Dvorak, QWERTY

## Experience

### Research Experience

2012 **Shenzhen Institute of Advanced Technology, Intern Student.**

2013 Doing scientific research.

- Efficiently team up with Baoquan Chen, Daniel Cohen-Or, Oliver Deaussen, Andrei Sharf *et al.*
- Studied texture weathering, motion clustering, shape retrieval, etc.
- Created a demo video for Yangyan Li's submission;
- Gained quarterly scholarships twice at SIAT.

2011 **Researches and Applications of Handwriting Recognition and Infrared Sensing in Virtual Surgery, Core Member.**

- **Research grade:** Special Project on the Integration of Industry, Education and Research of Guangdong Province;
- **Research contents:** We studied the Virtual Surgery Simulation of digital medicine. We used the partial interaction of the stereoscopic and infrared capturing equipment to positioning, and built a immersive surgery environment with scene roaming and the surgery operation using gesture recognition technique based on the BP neural network.
- **Personal duty:** studied on hacking Nintendo's Wii Remote; virtual scalpel modeling based on OpenGL; hand writing recognition based on BP network; paper drafting.
- **Results:** published 2 papers; first prize at school's software design competition; silver prize at the 12th Challenge Cup of National College Students' Academic Works.

2010 **Shenzhen Institute of Advanced Technology, Intern Student.**

2011 Help with their scientific works.

- First author of 2D Baidu Map Control;
- First author of offline hard-disk encryptor based on TEA algorithm;
- HR Assistant of Baveda;
- Literature investigation.

2009  
2010

### **A Bionic Singing System Based on MLTS technology., *Leader.***

- **Research Grade:** National Innovation Experiment Program for University Students;
- **Research Contents:** We proposed an intelligent singing system. The system uses percussion locating method to locate every moment when each word of lyric occurs. Daubechies Wavelets Transform (DWT) and Fast Fourier Transform (FFT) are used to calculate the fundamental frequency. The computer sings the song with text to speech technology.
- **Personal Duty:** core developer, paper writer;
- **Results:** published 1 paper; won 2nd Prize at School's Software Designing Contest.

### **Social Activities**

2011

#### **Member, Guangzhou Linux User Group (GZLUG).**

- Organizer of 2012 Software Freedom Day;
- Committer of GZLUG Github organization;
- Active user at the GZLUG mailing list.

2008  
2009

#### **Minister, Network Department, Student Union, South China Normal University.**

- Minister of the school's student union;
- Won the "Excellent Student Cadre" prize at the end of the academic year for the second time.

2007  
2008

#### **Class Monitor, Class 5, Grade 07, School of Computer, South China Normal University.**

- Organizer of the Class's Cultural Day;
- Won the "Excellent Student Cadre" prize at the end of the academic year.

### **Publications & Patents**

April 2014

#### **A decryption method of baidu map's coordinates based on artificial neural network, *Computer Engineering and Applications*, 1st Author, Published.**

April 2013

#### **The research and implementation of Immersive surgery environment, *The Magazine Agency of Computer Simulation*, 2nd Author, Accepted.**

February 2013

#### **The research and implementation of virtual infrared scalpel, *Computer Systems & Applications*, 1st Author, Accepted.**

April 2012

#### **Intelligent singing system based on wavelets transform and fast Fourier transform, *Computer Engineering and Applications*, 1st Author, Published.**

August 2013

#### **A Synchronized Multimedia Player, *invention patent*, 1st Proposer, Applying.**

December 2012

#### **Applications of three dimensional segmentation algorithm of belly blood vessels based on clifford algebra, *invention patent*, Co-proposer, Applying.**

### **Awards**

June 2012

#### **First Prize Innovation Scholarship, South China Normal University.**

October 2011

#### **Silver Prize, the 12th Challenge Cup of National College Students' Academic Works.**

June 2011

#### **Outstanding Graduate, South China Normal University.**

May 2011

#### **Outstanding Dissertation, South China Normal University.**

May 2011

#### **Special Grade, the 11th Challenge Cup of Provincial College Students' Academic Works.**

April 2011

#### **First Grade Scholarship × 2, South China Normal University.**

July 2010

#### **Second Grade Scholarship × 2, South China Normal University.**

### **Education**

2011

#### **Master Candidate, School of Computer, South China Normal University.** Master candidate in Computer Applications Technology

2007  
2011

#### **Bachelor, School of Computer, South China Normal University.** Bachelor of Science in Network Project

### **English Proficiency**