

# 潘伟洲

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## Skills

Languages C/C++, Python, Shell/Bash, Matlab

Operating Systems Linux, Windows

English Proficiency CET6(513)

Development Tools Emacs, Subl, Git, Makefile, gdb

## Experience

2012  
2013 **Shenzhen Institute of Advanced Technology, Intern Student.**

Doing scientific research.

- Collaborated scientific researchs with Baoquan Chen, Daniel Cohen-Or, Oliver Deaussen, etc.
- Studied texture weathering, motion clustering, shape retrieval, etc.
- Developed a 2D Baidu Map Control and an offline data encryptor;
- Gained intern student scholarships.

2011  
2012 **Researches and Applications of Handwriting Recognition and Infrared Sensing in Virtual Surgery, Core Member.**

- **Research contents:** We impletemented a virtual scalpel by using infrared sensing techniques, and built an 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; hand writing recognition based on BP network;
- **Results:** 2 papers; silver prize at the Challenge Cup of National College Students' Academic Works.

2009  
2010 **A Bionic Sining System Based on MLTS technology, Leader.**

- **Research Contents:** We proposed an intelligent singing system. The system uses firstly locates every moment when each word of lyric occurs, and then calculate the fundamental frequency based on wavelets transform and Fast Fourier transform. Finally the computer sings the song with text to speech technology;
- **Personal Duty:** core developer, paper writer;
- **Results:** 1 paper.

## Publications

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 trans form**, *Computer Engineering and Applications*, 1st Author, Published.

## 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*.

April 2011

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

July 2010

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