Pengfei Gao

Gender: Male   Phone：+86 15201344437

Age：22   E-mail：pengfeigaothu@gmail.com

Tsinghua University

Education

2014.09 ~ Now	Pursuing EE master degree at Tsinghua University	Top 10%
2010.09 ~ 2014.07	Bachelor EE degree at Beijing Jiao tong University	GPA:3.47

Skills

- **Computer Language：**   Skilled in C/C++ & Python programing, capable of coding in Linux
  Familiar with OpenCV

- **English language：**   CET4 scored 584，CET6 scored 577, capable of communicating in English

- **Algorithm Skills:**   Competed in ACM-ICPC, skilled in implementing& learning algorithms.

- **Additional Skills:**   Familiar with Image Processing & Pattern Recognition algorithms

Projects

- 2010.09 ~ 2015.03   **Projects**

  - **2012 ACM-ICPC Asian regional contest (Bronze award winner)**
    Competed in ACM-ICPC as team leader. ACM-ICPC is a programming contest where strong algorithm skills is needed.

  - **2013 National University Innovation Research and Training Program(Team Leader)**
    Designed and implemented a train operation system to validate an algorithm aiming at minimizing the energy consumption of trains. GA algorithm was adopted to find the optimum train operation set and the result was validated on the hardware system we designed.

  - **2013 Micro Mouse contest (Bronze award winner)**
    Implemented the optimization of shortest-path searching algorithm of the micro mouse. Adopted STM32 microchip to control the micro mouse.

  - **2014 Graduation Project: Segmentation &Recognition of Traffic Signs (Excellence)**
    Designed an algorithm that combines HOG feature and SVM to segment & recognize 3D-rotated traffic signs in the image.

Personal works

- **Ping-Pong Segmentation**   Video Link：http://v.youku.com/v_show/id_XNTE0NjY2Mzky.html
  (Implemented with OpenCV &C++)

- **pCard   project**   WebsiteLink:http://alexg31.github.io/my_blog_pages/html_template/alpines/index.html
  (Website& Product Design)

Internship

- **MingJia, Shandong (2014)**：Designed and implemented the software &hardware system for beer bottle residue liquor detection.

- **Samsung, Beijing (2015)**：Internship at Text to Sound (TTS) Group. Implemented Cantonese Text to Phoneme conversion system. Handling tasks like Unit Testing in C，writing Python scripts to process Chinese texts and implementing STL(C++) algorithms in C.