

# Resumé

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## Experienced Data Scientist

My research field is **Robot Perception and Learning**.

- particularly, it is moving object tracking introducing neighboring (object) interaction model and scene interaction model.

Familiar with **Machine Learning**.

- have ever implemented SVM, Real AdaBoost, TreeCascade for detecting objects, such as cars and pedestrians.

With experience in **Data Analysis**.

- have done data analysis for various business problems, which include sales prediction for chain drugstore, users' online booking behaviour analysis, NCAA basketball tournament prediction and so on.

Have **Computer Vision** background knowledge.

- learned about vision-based perception issues, which include features, camera model and 3D object shape recovery, from working or taking online courses.

## Skill Summary

**Machine Learning Theory** : SVM, AdaBoost, Cascade, Boosting Machine, Random Forest, clustering and so on.

**Machine Learning Tool** : LIBSVM, XGBoost.

**Data Analysis Programming** : Matlab/Octave(solid), Python.

**System Programming** : C/C++(solid).

**Data Base** : MySQL, SQLite.

**Language** : Chinese(native), English.

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## Career Progression

**Product Developer**, ACTi Corp., Aug. 2012 - 2015

- My job is to design computer vision algorithms for various surveillance and business service applications. I am mainly incharge of pedestrian and car detection. Besides, I also support algorithm review for moving object tracking, license plate recognition, heat map analysis and so on.
- As a senior developer, I am also responsible for providing the initial algorithm sketch based on the custom's requirement, hosting the team meeting and assigning corresponding tasks.

## Representative Projects

**Surveillance Applications**, ACTi Corp.

- Develop applications including tripwire, forbidden area, missing/unattended object detection, incorrect direction detection and crowd analysis.

**People Counting**, ACTi Corp.

- Detect and count the number of people entering and exiting the store for client *New World Design Center* (<http://www.new-world.com.tw>).

**Answer Sheet Recognition**, Private, Aug. 2015 - Oct. 2015

- Recognize the marked options from cell phone camera image for client *Study123* (<https://www.study123.com.tw>).

## Interests and Continued learning

**Data Analysis**@Kaggle

**Robotics, Machine Learning**@Coursera

**Computer Vision**@CRCV

**Android Application**

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## Education

National Taiwan University, Taipei, Taiwan

- M.S., Computer Science and Information Engineering, Sep 2008 - Jan 2012

National Chung Cheng University, Chiayi, Taiwan

- B.S., Computer Science and Information Engineering, Sep 2000 - Jul 2005
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## Publication

**Chien-Chen Weng**, Chieh-Chih Wang, Jennifer Healey, A Segmentation and Data Association Annotation System for Laser-based Multi-Target Tracking Evaluation, in Proceedings of the IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM 2012), July 2012. PDF

Kuo-Huei Lin, **Chung-Han Weng<sup>1</sup>** and Chieh-Chih Wang, LIDAR-based Multitarget Tracking using Neighboring Interaction Force Models, in Proceedings of the 24th IPPR Conference on Computer Vision, Graphics and Image Processing (CVGIP), August, 2011.

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Resume: [HTTP] [PDF]

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1. my former name↵