

# Resumé

Chien-Chen(Calvin) Weng

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## Summary

My research field is about **Robotics Navigation**.

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

Familiar with **Machine Learning**.

- have ever implemented SVM, RealAdaBoost, TreeCascade for detecting objects which are of the same category but with various appearance, such as cars and pedestrians.

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.
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## Work Experience

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

- Design image algorithms for surveillance and business service. I am mainly incharge of pedestrian and car detection.
- Support developments of moving object tracking and license plate recognition.
- Complete corresponding applications such as tripwire, forbidden area, incorrect direction detection and crowd analysis.
- Port and maintain algorithm packages under ACTi IVS(Intelligent Video System) framework.

## 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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## Skills

**System Programming** : C/C++(Solid)

**Data Analysis** : Matlab/Octave(Solid), Python

**Language** : English

## 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.

## Interests and Continued learning

Robotics, Machine Learning @Coursera, Computer Vision @CRCV, Android Application

Resume: <http://ccweng.github.io/resume> [PDF]

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1. my former name↵