

# Resumé

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## Work Experience

**Software Engineer**, Micro-Star International Co., Ltd (MSI), Nov. 2010 - Sep. 2013

- Build software architecture for high-end vacuum robot. Design algorithms to made consumer vacuum robot being capable of localizing and navigating accurately in indoor environment.
- Implement customized Robot software and Human-Robot Interface on linux-based embedded platform.
- Inventing cross-platform software suite for autonomous robot field tests and Improve product reliability.
- Introduce tools including Git version control flow, project management with Redmine to our team, which helps team communication and progress tracking. Also host seminars in department to encourage everyone learn new technique and share knowledge with each other.

## Education

National Taiwan University, Taipei, Taiwan,

- M. S., Computer Science and Information Engineering, Aug 2008 - July 2010

National Taiwan University, Taipei, Taiwan

- B. S., Mathematics, Aug 2004 - July 2008
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## Skills

**System Programming** : Software implementation with solid coding skills on C/C++. System analysis and debugging with open-source tools such as GNU debugger, Valgrind(Find memory Leaks) and strace(Trace system call & IPC & network)

**Data analysis** : Using Matlab and Python (With open-source numeric and scientific package) to finding useful information for scientific and business usage.

**Web Engineering**: Web service bootstrap with Rails + Heroku + Amazon Web Services. Basic knowledge on web load-balancing and scaling.

**Language** : English: Full professional proficiency, TOEIC 945

## Publication

**Chen-Han Hsiao** and Chieh-Chih Wang, Achieving undelayed initialization in monocular SLAM with generalized objects using velocity estimate-based classification, Robotics and Automation (ICRA), 2011 IEEE International Conference on , vol., no., pp.4060,4066, 9-13 May 2011.

## Project

**TED Open Translation Project.** 2012-present

- Translate about 20 video subtitles from English to Chinese. Completed translation: <http://www.ted.com/profiles/1352721/translations>

**Facebook Hacker Cup 2014:** Rank 827

- International programming competition hosted and administered by Facebook.

## Interests and Continued learning

Robotics, Machine Learning, Open Data, Open Source, Computer Security  
Startup Engineering @Coursera, Software as a Service @edX, 20+ courses completed @CodeSchool

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

中文履歷: [http://swem.github.io/resume/resume-zh\\_tw.html](http://swem.github.io/resume/resume-zh_tw.html) [PDF]