

# Shih-Han Chou

Resume/ Curriculum Vitae

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## EDUCATION

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### MS NATIONAL TSING HUA UNIVERSITY (NTHU)

Hsinchu, Taiwan

Master - Department of Electrical Engineering

Sep, 2014 – Current

GPA: 4.12/4.3 (- Current)

### BS NATIONAL SUN YAT-SEN UNIVERSITY (NSYSU)

Kaohsiung, Taiwan

Bachelor - Department of Mechanical and Electromechanical Engineering

Sep, 2010 – Jun, 2014

GPA: 3.8/4.0 (overall); 3.8/4.0 (major); 3.9/4.0 (last-60);

Rank: Top 7.4% (4<sup>th</sup>/54)

## HONERS AND AWARDS

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### ● NSYSU Undergraduate Outstanding Reports of Special Project (2013)

Topic: Estimating the relation between vertical ground reaction force and heart rate with different exercising strength during treadmill running.

## Publication

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### ● Shih-Han Chou, Bor-Sen Chen, “Robust Precoding of MIMO OFDM Systems with Minimum Peak-to-Average

Power Ratio: LMI-constrained Optimization Approach”, Submitted to *Signal Processing Letters*

## CORE COURSE AND GRADES

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System		Signal Processing:	
Fuzzy Systems	(A+/A+)	Automatic Control (*)	(95/100)
Systems Biology	(A+/A+)	Digital Signal Processing	(84/100)
H $\infty$ Robust Design and Its Applications to	(A/A+)	Image Processing	(80/100)
Control, Signal Processing, and Systems Biology		Machine Learning:	
Linear System Theory	(A/A+)	Introduction to Optimization (*)	(80/100)
Nonlinear Stochastic Control System	(A-/A+)	Introduction to Neural Networks	(90/100)
Computer Vision:			
Computer Vision for Visual Effects	(A+/A+)	(*): Undergraduate course	

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# SELECTED TERM PROJECT

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**Image Processing** GUI for Image processing and Image Compression implementation.

**Computer Vision for Visual Effects** Project Website: <https://sites.google.com/site/computervisionvisualeffectsg11/home>.

## RESEARCH EXPERIENCE

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- **Automatic Control and Signal Lab**

**Advisor: Prof. Bor-Sen Chen**

Robust Control and  $H_\infty$  Control, Adaptive Filter Apply in Communication (2014 - current)

- **Bio-Medical Micro Electro Mechanical Systems Lab**

**Advisor: Prof. Chen-Wen Yen**

The relation between vertical ground reaction force and heart rate during treadmill running (2013 - 2014)

The correlation between Heart Rate Variability and Apnea-Hypopnea Index is BMI dependent (2014)

## SKILL

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**Programming Languages** C, C++, C#, Python

**Simulation Software** MATLAB

**Languages** Chinese (native), English (fluent)

## WORK & TEACHING EXPERIENCE

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MediaTek Summer Intern 7/2014 – 9/2014

HIWIN Summer Intern 7/2013 – 8/2013 & 7/2012

Receptionist in The 43th International Symposium on Robotics 28/8/2012-30/8/2012