KAI-CHIEH HUANG

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Education

Jun 2015 B.S., Electrical Engineering, Nation Taiwan University

Publication

Oct 2017

Huang, K. C., Huang, Y. L., & Chien, S. Y. (2017). User Experience Enhancing Filter for a Webcam Based Human Computer Interaction. In *2017 IEEE 6th Global Conference on Consumer Electronics (GCCE)* (pp. 26-27). Nagoya, Japan: IEEE.

doi: 10.1109/GCCE.2017.8229269

Research Experience

Oct 2018- Research Assistant

Present Advisors: Prof. Da-Yuan Huang, Bing-Yu Chen Lab: Computer Graphics Laboratory, NTU

- Researched on new interactive haptic properties for the stylus.
- Designed a functional special-purpose stylus prototype with Arduino and 3D printed parts.
- Conducted literature review on various HCI topics.

Sep 2014- Undergraduate Researcher

Jun 2015 Advisor: Prof. Shao-Yi Chien Lab: Media IC and System Lab, NTU

- Built a webcam-based system enabling users to remotely control the computer with the head.
- Devised a speed adaptive filter which enables prompt, stable interactions when using a noisy input.
- Studied research articles on human-computer interaction, signal processing, and facial recognition.
- Received A+'s for two Special Project courses that are 2 semester credit hours each.

Sep 2013- Undergraduate Researcher

Jan 2014 Advisor: Prof. Ren C. Luo

Lab: Intelligent Robot and Automation Lab. NTU

- Explored ways the humanoid robot Nao can assist the elderly people in everyday activities.
- Studied research articles on humanoid robots and their applications.
- Received an A+ for a 2 semester credit hour Special Project course.

Application and System Design Experience

Nov 2017- Office Assistant

Apr 2018 South Africa Cape Town Mission, The Church of Jesus Christ of Latter-day Saints

- Created an effective online system for computer novice to report and read performance statistics.
- Maintained the system frequently according to the feedbacks from users of various backgrounds.

Nov 2016- Office Assistant

Dec 2016 Taiwan Taichung Mission, The Church of Jesus Christ of Latter-day Saints

- Explored the challenges computer novices face when performing tasks on the computer.
- Established an entry portal from which computer novices may accomplish other computer tasks.

Sep 2014- Contestant

Jan 2015 2015 Innovate Asia FPGA and SoC Design Contest, Altera

- Explored ways to satisfy a person's information needs at the beginning of a day.
- Designed an interactive device with an FPGA to assist the user in selecting an outfit combination.

Jul 2014- Intern

Aug 2014 IC Realization Division, MediaTek Inc.

- Cooperated with colleagues to understand the limitations of the IC design environment.
- Improved the UI/functionalities of the IC design environment used by the IC Realization Division.

Honors and Awards

Oct 2015 Presidential Award, 2nd Semester 2014/2015 at National Taiwan University

Top 5% overall semester GPA among all seniors in the Electrical Engineering Department.

Jan 2015 **Semi-finalist**, 2015 Innovate Asia FPGA and SoC Design Contest

Top 30 in Taiwan in an international digital consumer product design competition.

Dec 2014 **Gold Medal**, 2nd NTU Presentation Contest

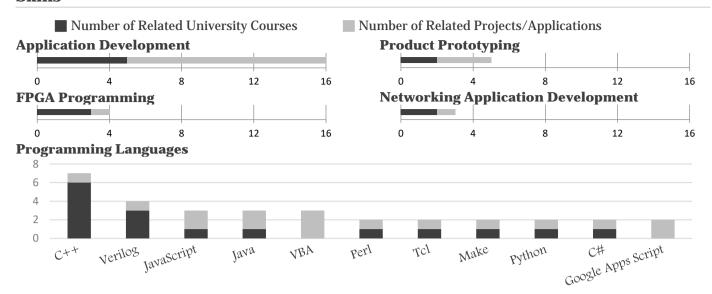
Top 3 in a national competition where contestants present prepared speeches with visual aids.

Jan 2014 Outstanding Award, 2014 National Electromagnetics Proficiency Test

Top 4% in the national college-level electromagnetics aptitude test for students in related fields.

Jul 2011 Silver Medal, 2011 International Young Physicists' Tournament

4th in a team competition where representatives from 21 countries present and defend their research.



Leadership		
Nov 2017- Apr 2018	Assistant to the President South Africa Cape Town Mission, The Church of Jesus Christ of Latter-day Saints • Led 8 pairs of zone leaders to oversee the entire 90-man organization.	
Dec 2015- Jul 2016	 Second Lieutenant Chief Counsellor 39th Chemical Regiment, Republic of China Army Resolved interpersonal conflicts and physical and mental issues within a company of 50 soldiers. 	
Jun 2013- Jun 2014	 Tennis Team Captain Electrical Engineering Department, National Taiwan University Established the team's new leadership organization, consisting of three vice captains. Coordinated with and delegated tasks to the vice captains to successfully run a team of 40 players. 	
Jul 2012- May 2014	 Young Single Adults Representative Hsinan Ward, The Church of Jesus Christ of Latter-day Saints Represented approximately 20 young adults in meetings to voice the needs of the population. 	
Feb 2012- Jun 2012	 Vice President National Taiwan University Club, Toastmasters International Founded a new team that organized programs related to or involving international students. 	

Physics Team Captain Mar 2011-Taiwan Representative Team, International Young Physicists' Tournament Jul 2011

• Oversaw the team's research progress during the months of preparation for the tournament.

• Conducted team discussions.

Teaching Experience

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Sep 2014- Jan 2015	Math and Science Tutor Free Tutoring Program for Disadvantaged Students, National Taiwan University • Helped individual disadvantaged students receive academic assistance they could not afford.	
Sep 2012- Jun 2014	Workshop Speaker National Taiwan University Club, Toastmasters International • Taught English grammar and pronunciation in sessions with approximately 20 participants each.	
Sep 2011- Jan 2012	Math and Science Tutor Chong De Volunteering Club, National Taiwan University • Assisted individual elementary students to receive academic assistance they could not afford.	

Extracurricular Activities		
Sep 2013- Jun 2015	 CAD and 3D Printing Hobbyist Contributed designs of consumer products onto Quirky.com, a crowd-sourced invention platform. Designed and printed multiple prototypes/objects with a self-assembled 3D printer. 	
Jul 2013- Aug 2013	Representative of Taiwan , <i>International Youth Forum Seliger, Russia</i> • Cooperated with people from eight different countries in daily missions and activities.	
Jul 2012- Aug 2012	 Co-organizer, NTU and Guan-Xi University Joint Service Project, Mainland China Cooperated with students from the top university in Guan-Xi, Mainland China. Organized and executed two one-week summer camps for high school students. 	