

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-Jul 2019 Research Assistant

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-Jun 2015 Undergraduate Researcher

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-Jan 2014 Undergraduate Researcher

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.
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Application and System Design Experience

Nov 2017-Apr 2018 Office Assistant

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-Dec 2016 Office Assistant

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-Jan 2015 Contestant

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-Aug 2014 Intern

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.
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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.

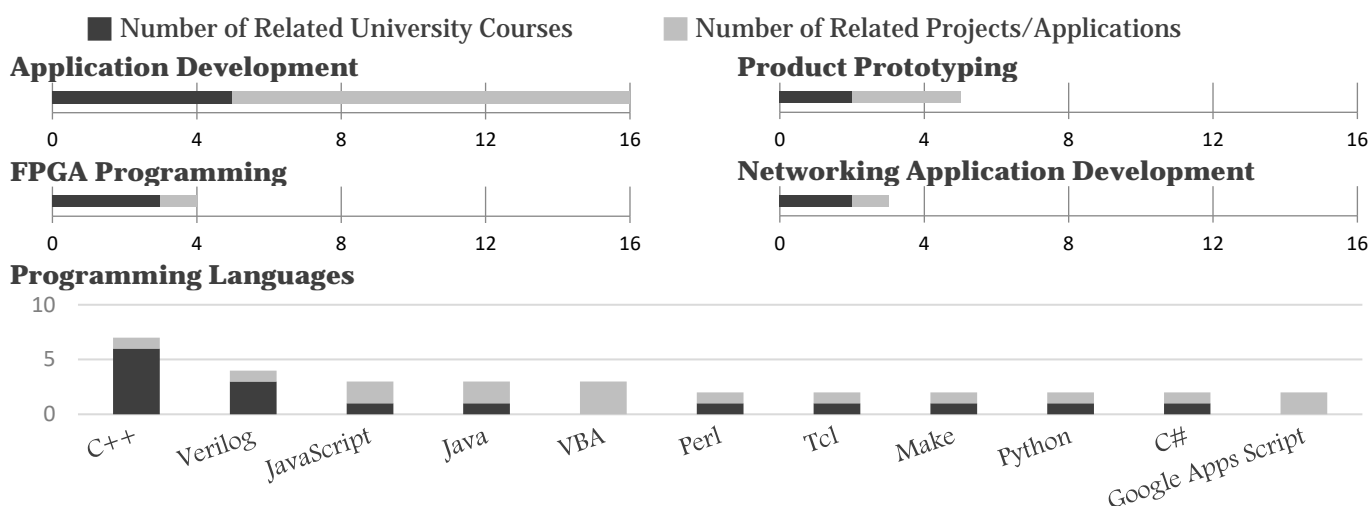
Jan 2014 Outstanding Award, 2014 National Electromagnetics Proficiency Test

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.

Skills



Leadership

Nov 2017- Apr 2018	Assistant to the President <i>South Africa Cape Town Mission, The Church of Jesus Christ of Latter-day Saints</i> <ul style="list-style-type: none">Led 8 pairs of zone leaders to oversee the entire 90-man organization.
Dec 2015- Jul 2016	Second Lieutenant Chief Counsellor <i>39th Chemical Regiment, Republic of China Army</i> <ul style="list-style-type: none">Resolved interpersonal conflicts and physical and mental issues within a company of 50 soldiers.
Jun 2013- Jun 2014	Tennis Team Captain <i>Electrical Engineering Department, National Taiwan University</i> <ul style="list-style-type: none">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 <i>Hsinan Ward, The Church of Jesus Christ of Latter-day Saints</i> <ul style="list-style-type: none">Represented approximately 20 young adults in meetings to voice the needs of the population.
Feb 2012- Jun 2012	Vice President <i>National Taiwan University Club, Toastmasters International</i> <ul style="list-style-type: none">Founded a new team that organized programs related to or involving international students.
Mar 2011- Jul 2011	Physics Team Captain <i>Taiwan Representative Team, International Young Physicists' Tournament</i> <ul style="list-style-type: none">Oversaw the team's research progress during the months of preparation for the tournament.Conducted team discussions.

Teaching Experience

Sep 2014- Jan 2015	Math and Science Tutor <i>Free Tutoring Program for Disadvantaged Students, National Taiwan University</i> <ul style="list-style-type: none">Helped individual disadvantaged students receive academic assistance they could not afford.
Sep 2012- Jun 2014	Workshop Speaker <i>National Taiwan University Club, Toastmasters International</i> <ul style="list-style-type: none">Taught English grammar and pronunciation in sessions with approximately 20 participants each.
Sep 2011- Jan 2012	Math and Science Tutor <i>Chong De Volunteering Club, National Taiwan University</i> <ul style="list-style-type: none">Assisted individual elementary students to receive academic assistance they could not afford.

Extracurricular Activities

Sep 2013- Jun 2015	CAD and 3D Printing Hobbyist <ul style="list-style-type: none">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, International Youth Forum Seliger, Russia <ul style="list-style-type: none">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 <ul style="list-style-type: none">Cooperated with students from the top university in Guan-Xi, Mainland China.Organized and executed two one-week summer camps for high school students.