

CHUCK C. CHAO

oahccc@gmail.com | oahc.cc

SKILLS	Skilled Familiar Language	HTML5, CSS3, JavaScript, Python, Excel VBA, Visual Studio, Adobe CC, Microsoft Office C#, C++, Git, Xamarin, Google Firebase, UX Research & Testing Mandarin (native speaker), Taiwanese Hokkien (working proficiency)	
CREDENTIALS	Xamarin-certified Mobile Developer, <i>Microsoft</i> LEED AP in Building Design & Construction, <i>U.S. Green Building Counsel</i> Revit Certified Professional, Building Performance Analysis Certificate, <i>Autodesk</i>		Aug 2017 Dec 2011 2016
PROFESSIONAL EXPERIENCE	Web Application Developer , <i>Self-employed, Naperville, IL</i> <ul style="list-style-type: none">Redesigned and administered static websites with aesthetic, SEO, and UX approachesIntegrated 3D, BIM, and VR technologies for architectural and interior design visualizationsDeveloped HTML parsing applications for retrieving online data BIM Developer , <i>Taiwan BIM Technology, Taipei, Taiwan</i> <ul style="list-style-type: none">Developed automated modeling applications by organizing information from data extraction, external service integration, and professional liaisons. Enhanced productivity by 50% at target tasksExpanded the company service to > 10 public housing projects with LEED consultancy and training to stakeholders, and represented design team in the official government review meetings Project Assistant , <i>National Central University, Taoyuan, Taiwan</i> <ul style="list-style-type: none">Interfaced with 20 affiliates in Science Education Center at all levels to ensure efficient workflow and coordination, and formalized SOPs and training materials for management clarityDeveloped educational apparatuses and teaching plans for STEM workshop demonstrationsUsed 3D printing, LASER cutting, and other tooling machines to build development prototypes Associate Researcher , <i>Industrial Technology Research Institute, Taipei, Taiwan</i> <ul style="list-style-type: none">Conducted policy research and promotional activities on behalf of Bureau of Energy to facilitate the adoption of renewable energy technologies and energy-saving measuresPlanned and lectured educational program for > 500 college studentsEnsured a State-funded USD\$1.5M project deliverables conform to the ISO9001 standards Technical Analyst Intern , <i>OnGreen Inc., Los Angeles, CA</i> <ul style="list-style-type: none">Performed due diligence, assisted in creating technical write-ups, delivered analytical reports to the management, and in-house managed technical translations for > 20 cleantech startups	Jan 2017 - present Feb 2016 - Dec 2016 Jan 2015 - Jan 2016 Sept 2013 - Nov 2014 Apr 2011 - Nov 2012	
PROJECTS	Ideation of a Smart Home Controller Utilized Intel Edison development board to execute polled operation on the Local Area Network device list and to send relative commands to the terminal devices after the identification. Successfully being short-listed (out of 120 participants) to the final of Intel® IoT Roadshow Hackathon event in 2015. UX research and UI design was further implemented in 2017. 3D Treasure-Hunting Game Built solely a class project with C++ featuring mathematical translation (between Cartesian, spherical, and cylindrical coordinates), responsive UI, and automated game log.		May 2015 - present June 2015
EDUCATION	University of Southern California , Los Angeles, CA, U.S.A. <ul style="list-style-type: none">Master of Science in Environmental Engineering National Central University , Taoyuan, Taiwan <ul style="list-style-type: none">Bachelor of Science in PhysicsContinuing Education Certificate (Computer Programming and Graphics in C++)		Dec 2011 June 2008 June 2015
PUBLICATIONS	Investigations of Increasing Low-carbon Penetration with Smart Energy Service Models <i>2014 Conference on IT & Applications in Outlying Islands, Pingtung, Taiwan</i> Infra-red Study of UV/EUV Photon Irradiation of H₂O+N₂+CH₄ Ice Mixtures <i>2008 Annual Conference of Physics Society, Taoyuan, Taiwan</i>		