

# CHUCK C. CHAO, LEED AP

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<b>CREDENTIALS</b>	U.S. Green Building Counsel – LEED AP BD+C Accredited Professional Autodesk – Revit Architecture 2015 Certified Professional Autodesk – Building Performance Analysis Certificate	
<b>SKILLS</b>	<b>Modeling &amp; Design</b>	Revit, AutoCAD, Navisworks, SketchUp, FormIt 360, Tekla
	<b>Analytical Tools</b>	CFD, Green Building Studio, Climate Consultant, Ecotect
	<b>Computer Language</b>	Dynamo Studio, HTML, CSS, JavaScript, C++
	<b>Graphic Tools</b>	Photoshop, Illustrator, Lightroom, Premiere Pro, GIMP
	<b>Microsoft Office</b>	PowerPoint, Excel, Word, Outlook, Project
<b>PROFESSIONAL EXPERIENCE</b>	<b>Flow Concept Co. Ltd</b> , Taipei, Taiwan – Mar 2017 to present <i>Technical Consultant (remotely)</i> <ul style="list-style-type: none"><li>• Organized BIM technical implementation strategies in the interior design sector, and provided virtual design &amp; construction tools, resources, and knowledge</li><li>• Investigated daylighting schemes and CFD-simulated HVAC air circulations for energy and construction cost optimization</li></ul> <b>Taiwan BIM Technology</b> , Taipei, Taiwan – Feb 2016 to Mar 2017 <i>Sustainable Design Consultant and BIM Coordinator</i> <ul style="list-style-type: none"><li>• Led the construction BIM establishment of the Luzhou District Ren'ai Parking Structure &amp; Multipurpose Building project during Feb to Dec in 2016</li><li>• Expanded company service by initiating environmental and energy consultancies and educational courses to external project stakeholders</li><li>• Developed parametric applications and data visualization methodologies to streamline workflow, enhancing project efficiency and information integration</li></ul> <b>Department of Physics, National Central University</b> , Taoyuan, Taiwan – Jan 2015 to Jan 2016 <i>Facility Manager</i> <ul style="list-style-type: none"><li>• Interfaced with laboratory and non-laboratory staff at all levels to ensure efficient workflow and coordination, and formalized SOPs and training materials for management clarity</li><li>• Undertook the daily equipment O&amp;M, implemented preventive maintenance procedures, and responded to abnormal conditions by repairing or liaising with externals</li><li>• Ensured the related project deliverables conform to the ISO14001 &amp; OHSAS18001 standards</li></ul> <b>Industrial Technology Research Institute</b> , Taipei, Taiwan – Sept 2013 to Nov 2014 <i>Associate Researcher and Project Quality Manager</i> <ul style="list-style-type: none"><li>• Conducted detailed policy research and promotional activities on behalf of Bureau of Energy, to increase domestic utilization of renewable energy and energy-efficiency applications</li><li>• Created and lectured the 2014 Nationwide Low-carbon Energy Education Program</li><li>• Ensured Bureau-of-Energy-funded USD\$1.5M project deliverables conform to the ISO9001 standards as a project quality manager from Feb to Nov 2014</li></ul> <b>OnGreen Inc.</b> , Los Angeles, CA – Apr 2011 to Nov 2012 <i>Technical Analyst Intern</i> <ul style="list-style-type: none"><li>• Performed due diligence on clients' technologies, assisted in creating technical write-ups, delivered analytical reports to the management executives, and in-house managed translations</li></ul>	

## MAJOR PROJECTS

### **Chewfong Residential Apartment Interior Design**, Hsinchu, Taiwan

Provided software integration strategies, VR experience introductions, and daylighting/CFD analyses. Successfully helped the designers to adopt Revit as a new tool for making better design decisions and construction drawings.

### **Luzhou Dist. Ren'ai Parking Structure and Multipurpose Building**, New Taipei City, Taiwan

Led the architectural and MEP construction BIM model establishment for a 218,000 sq ft mixed used facility during Feb to Dec in 2016. My duties include project deliverables monitoring, pre-construction clash detection studies, RFI preparations, and 4D BIM construction simulations, and communications with project stakeholders for relevant standards and approvals.

### **Dongmin Public Housing LSTK Project**, Taipei, Taiwan

Provided the pedestrian safety simulations and evaluations in terms of environmental winds, site planning, and building designs, and represented the project design team in the Taipei City Government Public Construction Review Meeting in July 2016.

### **Qiyang Public Housing LSTK Project**, Taipei, Taiwan

Provided environmental wind, sun shading, and insolation analyses and cooling load calculations to the design team in the tender process for a 312,000 sq ft public housing project, which later succeeded the bid in Feb 2017.

### **Chung Road No.4 Public Housing LSTK Project**, Taoyuan, Taiwan

Provided environmental wind, natural ventilation, sun shading, and insolation analyses to the design team for their tendering designs, which later succeeded the bid in Aug 2016.

## COMPETITION

### **2015 Intel® IoT Roadshow Hackathon**, Taipei, Taiwan – May 2015

Innovated the *WiFi-triggered Household Automation Controller* based on the connectivity between mobile phone identifications and household AP device. Led 3 teammates from hardware to software engineers to make product prototype in a tight 2-day time frame and limited resources, and successfully being short-listed (out of 120 participants) for a keynote address in the final of the contest.

## EDUCATION

### **University of Southern California**, Los Angeles, CA, U.S.A.

Master of Science in Environmental Engineering, Dec 2011

### **National Central University**, Taoyuan, Taiwan

Bachelor of Science in Physics, June 2008

## LANGUAGE

Native speaker in Mandarin; intermediate in Taiwanese Hokkien

## HONORS

Served as Private Basic in Compulsory Replacement Military Service of Taiwan

Received University Outstanding Award of Campus Service in 2004

## PUBLICATIONS

- Investigations of Increasing Low-carbon Penetration with Smart Energy Service Models: Penghu as an Example, 2014 Conference on IT & Applications in Outlying Islands
- Infra-red Study of UV/EUV Photon Irradiation of H<sub>2</sub>O+N<sub>2</sub>+CH<sub>4</sub> Ice Mixtures, 2008 Annual Conference of Physics Society in Taiwan

## REFERENCES

Available upon request