Xinxin Hu (Crystal)

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Education & Qualifications

Carnegie Mellon University — **Pittsburgh, U.S.**
Master of Science in Sustainable Design — Aug 2018

- Courses: Machine Learning, Building Performance Modeling, Productivity Health and the Quality of Buildings, Zero Energy Housing, LEED Green Design and Building Rating in Global Context, Database Management

The Hong Kong Polytechnic University — **Hong Kong, China**
BEng(HONS) in Building Services Engineering — Aug 2013 – Jul 2017

- **Hong Kong Special Administrative Region Government Scholarship Fund** — Jun 2015
- **Dean's Honors List 2017** — Aug 2017

Work Experience

Carnegie Mellon University, USA — Sep 2017 – Dec 2017
Research Assistant – Data Analytics and Retrofit project for GSA

- Utilizing Pi System for building annual data analytics and real time diagnostic
- Identified the limitation and gaps in existing retrofit field
- Identified energy savings for commercial building control retrofit strategies for large stakeholders, GSA

The Hong Kong Polytechnic University — Jun 2017 – Jul 2017
Research Assistant – Building Automation & HVAC system

- Analyzed Data for optimization of Cooling System operation and achieved 15% energy saving

Jacobs China Limited, Hong Kong — Jun 2016 – Aug 2016
Assistant Engineer - Electrical and HVAC Trade

- Assisted in electrical system design review and lighting design by DiaLux
- Performed building performance modeling and achieved 25% energy saving
- Conducted wind, solar and daylight analysis using Rhino, Grasshopper and Diva

Research Experience

Energy Effects on Enhancing the Shading of a Campus Building — Sep 2016 – Aug 2017
Aim: To reduce the direct solar heat gain and cooling energy consumption by enhancing the shading devices

- Simulated annual solar heat gain using EnergyPlus
- Reduced 71% of solar heat gain by applying solar films on windows
- Performed Solar Photovoltaic simulation and achieved 7% energy generation out of total building energy

Skills

Software: Revit, DesignBuilder, Rhino, Grasshopper, Diva, Climate Consultant, AutoCAD, EnergyPlus, DIALux, PV*SOL, FPEtool, Microsoft Project, Microsoft Office
Programming Language: Python
Language: English (IELTS: 7.0, TOEFL: 100), Mandarin (Native), Cantonese (Basic)
Database Management: SQL, Microsoft Access

Competitions

ULI Hines Student Competition – Eco-district Designer — Jan 2018
Smart-e City Competition – Group Leader — Feb 2016 – May 2016