Ning Feng fengn06@gmail.com

Objective Energy Analyst

Education

University of Pennsylvania, Philadelphia, USA 2010-2011
Master in Building Science GPA: 3.9/4
- Focus on high performance building simulation (Energy and CFD simulation)

Tsinghua University, Beijing, China 2006-2010
Bachelor in Building Environment and Equipment Engineering GPA: 89/100
- Focus on HVAC design and retro-commissioning

Working Experience

Graduate Mechanical Engineer 2012.3-2012.10
Computational Simulation Group, Buro Happold Engineering Consulting Ltd.
- Built dynamic thermal models and performed energy simulation in IES-VE based on ASHRAE 90.1
- Conducted CFD simulation in CFX for validation of mechanical design and indoor comfort
- Provided recommendations on design for clients and MEP group based on simulation results
- Organized presentations and reports

Intern for HVAC retro-commissioning Summer 2009
Beijing Fazhan Building (Office building)
- Conducted itemized energy analysis and diagnosis of HVAC system based on field measurement
- Analyzed field data, proposed solutions and estimated energy saving potential
- Organized reports and presented to clients

Academic Experience

Energy modeling, calibration and sustainability design University of Pennsylvania, Spring 2011
- Conducted energy modeling of campus buildings in DesignBuilder and compared energy simulation results with measured data and calibrated energy models
- Proposed sustainable design strategies based on energy simulation results

Dynamic integration between energy simulation and CFD simulation for outdoor conditions
Master degree thesis TC Chan Center, University of Pennsylvania, 2010-2011
- Coded in Matlab and achieved connection between EnergyPlus and Fluent
- Tested simplified model to achieve high accuracy of energy simulation

HVAC system design Tsinghua University, Fall 2009
- Performed load calculation and heating/cooling equipment selection
- Completed HVAC system design drawing in AutoCAD and conducted BAS design

Related courses

Building Performance Simulation, HVAC system commissioning, Performance Design Workshop, HVAC System Design, Building Automation System, Building Environment, Project Management

Skills

Simulation Software: IES-VE, DesignBuilder, EnergyPlus, Ansys CFX, FLUENT, Phoenics
Other Software: AutoCAD, Rhino, Microsoft Office, Matlab
Programming: C, Matlab, Simulink