

RASHMI BALIGA

Graduate Student, Building Performance and Diagnostics

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EDUCATION

Master of Science in Building Performance and Diagnostics

Carnegie Mellon University
August 2018 – Present | Pittsburgh, PA
CGPA: 3.97/4.33

Bachelor of Architecture

Sir J. J. College of Architecture
July 2013 – June 2018 | Mumbai, India
CGPA: 8.21/10

SKILLS AND ABILITIES

- Building Energy Performance Modeling
- Energy Consumption Analysis
- Post Occupancy Evaluation
- Familiar with LEED and WELL rating systems
- Familiar with ASHRAE building standards and benchmarking methods
- Knowledge of power distribution infrastructure

SOFTWARES

eQuest
DesignBuilder + EnergyPlus
Rhino + Grasshopper
Revit + CEA tool
Climate Consultant
AutoCAD
SketchUp
Photoshop

PROGRAMMING

C++ Python Basic MATLAB

WORD-PROCESSING

MS Office Suite L^AT_EX

EXTRA - CURRICULARS

K.C. Mahindra Merit Scholar 2018

Volunteered at GreenBuild Expo, India

- First GreenBuild Expo in India, organized by the USGBC. 2017

Student Council, Sir. J. J. College of Architecture (Cultural Team)

Cultural Secretary 2015 - 2016
Cultural Undersecretary 2014 - 2015

- Planned and implemented the annual cultural festival of the college.

RELEVANT COURSEWORK AND PROJECTS

Graduate Coursework

Fall 2018 - Coursework and Projects

- **Building Performance Modeling** - Analyzed a commercial building's energy performance using Revit CEA, eQuest and DesignBuilder + EnergyPlus. Modeled and analyzed HVAC systems on DesignBuilder using EnergyPlus
- **Productivity, Health and Quality of Buildings** - Quantified the potential economic benefit of user-oriented building portfolio investments
- **LEED, Green Design and Building Rating in a Global Context** - Researched credit requirements for global rating systems like LEED, Green Mark, GBI etc.
- **Mechanical and Electrical System Design for Buildings** - Conducted a building audit of Posner Hall and studied the building engineering systems, power distribution and construction methodology and materials

Spring 2019 - Ongoing

- **Environmental Performance Simulation** - Evaluating the environmental performance (solar, visible and thermal radiation) of a structure using Grasshopper plugins for Rhino (Ladybug, DIVA, ArchSim).
- **Building Controls and Diagnostics** - Analyzing and designing building control systems using empirical and field-based methods at the Centre for Sustainable Landscapes (CSL) building, Pittsburgh, PA.
- **Zero Energy Housing** - Learning and applying Zero Energy and Carbon Balance definitions, calculations and design methods, and using RESNET for the HERS rating system.
- **BIM for Engineering, Construction and Facility Management**

Undergraduate Dissertation - Architecture for Outreach

- Devised a method to increase accessible medical aid in rural India by the means of portable, deployable architectural modules using existing transportation infrastructure.

EXPERIENCE

Graduate Research Assistant

Carnegie Mellon University Sept 2018 – Dec 2018 Pittsburgh
Guide: Prof. Omer Tugrul Karaguzel

- Research area: Post Occupancy Evaluation + Measurement
- Conducted research and analysis of post occupancy evaluation methods
- Analyzed and updated Carnegie Mellon University's *National Environment Assessment Toolkit* protocol, and checked calibration of sensors and equipment

Architectural Intern

Moco Design Studio Dec 2016 – May 2017 Pune, India

- Created and issued design, construction and compliance documentation for commercial and residential buildings.

WORKSHOPS

Earthquake Resistant Building Workshop

Indian Institute of Technology, Kanpur 2016

Zero Energy Building Workshop

Indian Institute of Technology, Bombay 2015