# **Devang Chauhan**

## **Building Sustainability Analyst**

"I enjoy developing tools and work-flows for building performance measurement and optimization."



☑ devang@outlook.in

**\** 437 244 4016

∂ devang.io

devangchauhan

Toronto

Permanent Resident of Canada

# s Education

### **Master in Environmental Building Design**

UPenn, USA

**Sep.12 - Aug.13** 

Building Science, Energy modeling, Daylighting, CFD, Performance simulation, Research, GPA 3.73/4.0

#### **Bachelor in Architecture**

The M.S. University of Baroda Jul.05 - Jul.10 Architecture & Building Construction. Graduated top of the class. Five awards for performance. Gold Medalist

# Certificates

BPAC	IGBC AP	CFD
Autodesk	IGBC	Autodesk
6.00.2X	6.00.1X	LinkedIn
MITX	MITX	For full list
<b>LEED Gree</b>	n Associate	
CRCI		

GBCI

# Research

### **Independent Research**

India 🛅 Jan.17 - Present

Building Science, Energy modeling, Daylighting, CFD, Performance simulation, Research, GPA 3.73/4.0

### **Academic Research**

UPenn, USA Sep.02 - Aug.13

Quantification of hear gain / loss from a building envelope Sustainability - A Business Paradigm

Disparities between Design-Build and Design-Bid-Build

# Work Samples

Please visit **devang.io** or click here to view the samples of work

# Skills

Ladybug	•••••
Honeybee	•••••
Butterfly	•••••
Climate Consultant	••••••
Revit + Insight	••••••
Rhinoceros + Gh	•••••
Sketchup	•••••
AutoCAD	•••••
Design Builder	•••••
eQuest	•••••
Python	••••••
HTML + CSS	••••••
Javascript	••00000000
Tableau	•00000000
Photoshop	••••••
Illustrator	•••••
InDesign	•••••

# **8** Awards

**Gold medal** The M.S. University of Baroda For the best academic performance

**Gold medal** The M.S. University of Baroda For the best performance in architectural design

**Gold medal** The M.S. University of Baroda For the best performance in design thesis

**Silver Medal** The Institution of Engineers, India For the highest score in civil engineering exam

**Excellence Award** Pidilite Industries Limited For excellence in architectural studies

# **♣** Interests

Daylighting Energy Modeling CFD Comfort Modeling

Automation

Software development Web development Content development

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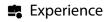
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### Senior Engineer in Global Sustainability [Full-time]

### Khatib & Alami, Bangalore Design Centre

mar.18 - Present

- Developed compliance documentation for LEED V4, Estidama, and Dubai municipality regulations [DMGBR]
- Conducted parametric performance simulations using Rhino Grasshopper + Ladybug Tools and Revit + Insight
- Conducted daylight analysis for several projects
- Conducted airflow studies to measure local wind velocities at site using computational fluid dynamic (CFD) simulations
- Conducted measurement of universal thermal climate index (UTCI) and Predicted Mean Vote (PMV) for human thermal comfort
- Tutorials and content development for the team
- Prepared conceptual energy models for design stage energy consumption estimation and passive savings potential
- Performed technical review of architectural design proposals for their compliance with the LEED V4, Estidama, and Dubai municipality regulations
- Provided sustainability analysis to the project bid presentations

### **Tool Developer & Contributor** [Pro Bono Remote Work]

### Ladybug Analysis Tools, USA

Sep.16 - Present

- Implemented non-convex checking capability to the Honeybee legacy library
- Implemented Beaufort scale and added several capabilities to the original wind-rose component
- Fixed bugs in legacy and [+] versions of Ladybug and Honeybee and contributed to the code base using Python Programming
- Provided Regular support to other users on the forum

### **Senior Architect** [Full-time]

#### Mamta Shah & Associates, India

**a** Jan.14 - Feb.18

- Performed Climate analysis, solar studies and daylight analysis for several projects using Rhino Grasshopper + Ladybug Tools
- Developed the company website
- Developed internal company website and a series of web tools using Python and Javascript
- Reduced time for quality check by about 65% using the internal company website and the web tools
- Was responsible for the Designing, planning, and execution of large-scale high-rise residential gated communities
- Co-ordinated with mechanical, electrical, plumbing, fire-fighting engineers for technical accuracy of project deliverables
- Provided technical review and inspection of deliverables by the junior staff and corresponding engineers
- Provided mentoring and was responsible for the skill development of the junior staff
- Conducted recruitment of staff and monitored their performance
- Maintained regular correspondence with clients and engineers for preparation of technical project bids and reports
- Developed and implemented of project specific and general quality standards for technical project deliverables
- · Aided senior management in the development of policies for maintaining efficient work-flows

#### **Architect** [Full-time]

#### SamARCH Architects, India

**Sep. 10 - May. 12** 

Jul.08 - Nov.08

- Developed of technical good for construction drawings for various projects
- Performed technical review of the work of the interns and the CAD operators

### Intern [Full-time]

#### Anand Patel & Associates, India

- Developed design drawings for various architecture projects
- Supported senior architects in the development of technical good for construction drawings