Devang Chauhan

Sustainability Analyst

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



Permenant Resident of Canada

${\ oxed{\boxtimes}\ }$ devang@outlook.in

- **** 437 244 4016
- devang.io
- devangchauhan
 - Toronto

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
LEED Green Associate		
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	•••••
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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Experience

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) for human comfort in the outdoor spaces
- 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

iii 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

- 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

iii Jul.08 - Nov.08

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