



# Devang Chauhan

Building Performance 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

## 📁 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) 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

📅 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

📅 Jul.08 - Nov.08

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