Devang Chauhan

✉ devang@outlook.in   📞 +91 9979389777   🔗 www.cargocollective.com/domain   📍 Vadodara, India

🎓 Education

M.E.B.D. | Masters in Environmental Building Design   **Sep.12 - Aug. 13**
University of Pennsylvania (Upenn), USA   GPA 3.73 / 4.00

- Sustainable Design
- Daylighting
- Energy Modelling
- CFD Simulation
- Performance Simulation
- Parametric Analysis
- Climate Analysis
- Programming

B.Arch. | Bachelor of Architecture   **Jul. 05 - Jul.10**
Faculty of Technology and Engineering, M.S. University of Baroda │ India   ⊿ **Gold Medalist**
with Distinction

📑 Certificates

⊿ **Autodesk Building Performance Analysis Certificate**   **Jan.17**
Autodesk

6.00.2X: Introduction to Computational Thinking and Data Science   **Jan.17**
Edx │ Massachusetts Institute of Technology

6.00.1X: Introduction to Computer Science and Programming Using Python   **Aug.16**
Edx │ Massachusetts Institute of Technology

Revit Architecture 2015 Essentials   **May.16**
Lynda

Project Management Simplified   **Nov.15**
Lynda

⊿ **IGBC Accredited Professsional**   **Oct.15**
IGBC │ CII

Data Analysis - Take it to the MAX()   **Jun.15**
Edx │ Delft University of Technology

⊿ **LEED Green Associate** (Expired)   **Oct.13**
GBCI │ USGBC

Revit Architecture 2014 Essentials   **Oct.13**
Udemy

🏅 Awards

⊿ **Gold Medal for Best Academic Performance**   **Dec.10**
The Maharaja Sayajirao University of Baroda │ India

⊿ **Gold Medal for Best Performance in Architectural Design**   **Dec.10**
The Maharaja Sayajirao University of Baroda │ India

⊿ **Gold Medal for Best Performance in Design Thesis**   **Dec.10**
The Maharaja Sayajirao University of Baroda │ India

⊿ **Award for Securing Highest Score in Civil Engineering Exam**   **Nov.10**
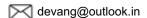**The Institution of Engineers** │ India

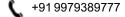**Award for Excellence in Architectural Studies**   **Nov.10**
Pidilite Industries Limited │ India

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💼 Work Experience
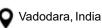
Contributor
Ladybug Analysis Tools

Sep.16 - Present
[03 Month]

- Implemented the Beaufort Scale in Ladybug WindRose and a few enhancements
- Python programming for enhancements and bug fixing
- Responding to user queries on the Grasshopper forum
- Working on "Autozoner" implementation for Honeybee. A method to generate conceptual thermal zones automatically

Sr. Architect & Sustainability Specialist
Mamta Shah & Associates │ Vadodara, India

Jan.13 - Present
[3Years 01 Month]

- Shadow studies, Daylight Analysis, Conceptual energy modeling, Outdoor comfort studies
- Master Planning to execution of Affordable Housing for the Govt. of Gujarat.
- Obtaining approvals from the Govt. representatives, PMC, Statutory authorities
- Management, Mentoring, and capacity building of junior staff
- Preparing project specific work-flows, systems, and quality standards
- Bid Presentations and Design Basis Reports (DBR)
- Execution drawing production and approval from PMC
- Submittal verification
- Coordination and Discrepancy resolution among architecture, structure & MEP
- Close coordination with the General Contractor for delay free project delivery
- Close coordination with following PMC consultants
  - **Engineers India Limited (EIL)**
  - **SGS Pvt. Ltd.**
  - **Tata Consulting Engineers (TCE)**

Architect
SamARCH Architects │ Ahmedabad, India

Sep.10 - May.12
[1Year 09 Months]

- Supervision and leadership of a team of interns and technicians
- Design development for high-rise apartments and villas
- Technical execution drawing and Technical 3D model development
- Coordination for construction and query resolution

✏️ Research

Ongoing Independent Research

Aug.16 - Present

- Pre-simulated guidelines for attaining thermal comfort in a gated community   [Paper]

Academic Research
University of Pennsylvania │ USA

Sept.12 - Aug.13
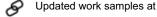
- Quantification of Heat Gain/Loss from a Building Envelope   [Independent Paper]
- "Sustainability" - A Business Paradigm   [Group Paper]
- Disparities between Design-Build and Design-Bid-Build   [Independent Paper]

🔗 Updated work samples at   http://cargocollective.com/domain

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🛠 Tools & Skills

Daylight Analysis

Autodesk Ecotect	● ● ● ● ●
Ladybug Analysis Tools	● ● ● ● ●

Energy Modeling

Design Builder - EnergyPlus	● ● ● ○ ○
eQuest	● ● ● ● ○
Ladybug Analysis Tools	● ● ● ● ●

CFD

Ansys : Fluent	● ● ● ○ ○
AutoDesk Flow Design	● ● ○ ○ ○
Ladybug Analysis Tools	● ○ ○ ○ ○

Productivity

MS Excel	● ● ● ● ●
MS Word	● ● ● ● ●
MS PowerPoint	● ● ● ● ○
MS Outlook	● ● ● ● ○
MS Project	● ○ ○ ○ ○
Asana	● ● ● ● ●

Technical Drawing

AutoCAD	● ● ● ● ●
Revit Architecture	● ● ● ● ○

3D Modeling

Sketchup	● ● ● ● ●
Rhinoceros	● ● ● ● ○
Grasshopper	● ● ● ● ●

2D Graphics

CorelDRAW	● ● ● ● ○
Photoshop	● ● ○ ○ ○

Programming

Python	● ● ● ● ○
HTML	● ○ ○ ○ ○
Javascript	● ○ ○ ○ ○
C#	● ● ○ ○ ○

📖 References

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