Cover Letter: ABHISHEK S KHANNA

Respected Sir/Madam,

Many Greetings!

I am Abhishek S Khanna, having a Bachelor's degree in Mechanical Engineering, post graduation in Advanced Computing, qualified LEED Green Associate and a MS Architecture (Sustainable Design) candidate from University of Minnesota.

With 9.5 years of experience in AEC industry, I have built a strong foundation and good analytical skills in HVAC design, interdisciplinary coordination, energy modeling, BIM, green buildings by working on variety of projects like K-12 Schools, Stadium, Offices, Retails, Residential, Hospitals, Hotels etc.

I have contributed to multimillion dollar projects by working with world's 8th best international design firm, Dar Al-Handasah Consultants as per ENR. Few noteworthy projects I have worked on are Princess Nora Bint Abdulrahman University, Riyadh (World's largest university for women), Al Khor Stadium, Doha, Qatar for FIFA 2022.

Strong designing experience and advanced modeling techniques learnt at University of Minnesota led me to the opportunity to work for USGBC's GBCI contracted company where I reviewed more than 500 LEED projects & had frequent technical discussions with GBCI team. Few remarkable projects on which I have worked are Schools in Ohio, Tech offices in California, NASA office buildings in Florida, KFC buildings, High rise towers in Beijing, Brazil FIFA stadiums, Apple Store, NY residential towers etc.

I aim to sculpt a dynamic career in the realm of **AEC industry** and **Sustainability Services** and be a valuable contributor in company's growth and success.

I have attached my CV for your perusal and I hope you find my profile a best fit for your requirement and if it requires some more skills, I assure you of mastering them with dedication.

Yours sincerely, Abhishek S Khanna +91-7798734201; +1-612-615-9616 abhishekskhanna@gmail.com

Please find CV on next page

ABHISHEK S KHANNA

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Phone No: +1 - 612-615-9616

Phone No: +91- 860-015-3290

VISA Status: Approved H1B US VISA

GOAL

To sculpt a dynamic career in **AEC industry** by synergizing my skills in Mechanical Engineering, Sustainable Design, Information Modeling, Data Analysis and help build a **Sustainable Smart City.**

EXECUTIVE SUMMARY

Education:	MS Sustainable Design candidate BE Mechanical LEED Green Associate PGD Adv. Computing	
Experience:	9.5 years experience in Mechanical Engineering Sustainability & Green Building Professional	
Expertise:	HVAC Design, Execution Coordination Team Management Site Supervision Energy modeling	
	Sustainability Services Authority Submission LEED Facilitation BIM Contracting Consultation	
Employers:	Epsten Group CSBR Dar Al-Handasah Consultants IES Mindhive Labs Solutions	
Projects:	World Houston Building Toledo CSD, Ohio Schools NASA Office Building, Florida KFC Theparak	
	Princess Nora Bint Abdulrahman University, Riyadh, KSA (World's largest university for women)	
	Qatar FIFA Stadium, 2022 Brazil FIFA Stadium La Plage South, Pearl Qatar 500+ LEED Reviews	

EDUCATION SUMMARY

•	MS Architecture (Sustainable Design)	U of Minnesota, USA	(GPA 3.5/4)	Candidate
•	LEED Green Associate			Sep. 2010
•	PG Diploma in Advanced Computing	C-DAC, Pune India	(GPA 3.5/4)	Aug. 2007
•	BE Mechanical Engineering	U of Pune, India	(GPA 3.5/4)	May 2006

EXPERIENCE SUMMARY

Independent Consulting, India	Project Consultant Oct 2015 – Present 1Y 101	M
The Epsten Group, Atlanta, GA, USA	. Technical Analyst I Sep 2013 – Sep 20152Y 11	M
Center for Sustainable Building Research, USA	Research Assistant Jan 2013 – May 2013 51	M
Dar Al-Handasah Consultants (Shair and Partners), India	Mechanical EngineerMar 2011 – Aug 20121Y 6	M
Integrated Environmental Solutions, India	Design Consultant Oct 2010 – Feb 2011 51	M
Dar Al-Handasah Consultants (Shair and Partners), India	Mechanical Engineer Mar 2008 – Oct 20102Y 8	M
Mindhive Labs Solutions Pvt. Ltd. Pune, India	Design Engineer Sep 2007 – Feb 200861	M
* For Projects details and Role please refer to next page		M

SOFTWARE SKILLS

✓ B	Building Energy Analysis software	Carrier HAP IESVE Sefaira Concepts Trane Trace eQUEST
✓ E	quipment selection software	Carrier Trane York Flakt Woods MCQuay Titus WinCAPS
✓ B	IM software	AutoCAD Revit MEP Dynamo Navisworks PlanGrid
\checkmark S	ustainability & Utility software	PVWatts ArcGIS Athena LCA MS Office Suite: Word, Excel
✓ P	rogramming Skills	C, C++, Java MvSOL

AREA OF INTEREST

•	Building Energy Analysis
•	HVAC Design
•	Building Information Modeling Setup Coordination Modeling Clash Detection Construction BOQ Reports Families, Template Creation Research & Development Optimization BMS
•	MEP Execution & Supervision Design & Calculations verification Mechanical & Builder's work drawing

COMPANY, ROLE, RESPONSIBILITIES, TEAMSIZE, PROJECTS & DURATION:

COMPANY, NOLE, RESTONSIBILITIES, TEMPSIZE, I ROSECTS & DORATION.
❖ Independent Consulting, India PROJECT CONSULTANT 4 Eng Oct. 2015 – Present (1Y 10M)
 > Project Consultation (HVAC Design, Execution Energy Modeling Optimization Coordination Site Supervision) > Authority Submission (Sustainability Services Documentation Facilitation Coordination Assessment) > Integrated Design (Collaborate with domain experts and develop guidelines to meet desired goals)
• US Middle East India Retails Offices Hotels Schools
<u>FEATURES:</u> HVAC Design Ventilation Design Building Energy Analysis LEED Consultation Coordination
❖ The Epsten Group, Atlanta, USA TECHNICAL ANALYST 6 Eng Sep. 2013 − Sep 2015 (2Y 1M)
 LEED Reviewer (EA, IEQ review for 500 projects in US & globally for GBCI ASHRAE Std. 90.1, 62.1) Design Engineer (HVAC design strategy Baseline compliance Design optimization EA documentation) Develop Guidelines (GBCI review committee member Analyze new strategies Develop & implement new strategies)
 Stadiums Retails Offices Restaurants Hospitals Schools Residential Brazil FIFA stadiums Dubai Towers Qatar Hotels Apple Microsoft Google NY Towers
<u>FEATURES:</u> HVAC Design Energy Analysis ASHRAE Baseline Proposed Analysis Recommendations
* CSBR, U of M, USA
 Energy Analysis (Shoebox Analysis Multi variant Parametric Analysis Data Analysis Integrate to synergize) Result Comparison (Consistency of strategies between energy analysis programs IESVE Sefaira) Energy Guidelines (Develop performance guidelines for State of Minnesota based on result findings)
• University of Minnesota Campus Buildings Low Energy Labs
FEATURES: Parametric Analysis Building Geometry Orientation Envelope SB2030 Multifamily guidelines
❖ Dar Al-Handasah
 > HVAC Design(Load Calculation, Air Distribution design, hydronic design, Equipment selection) > Ventilation Design(Common, DOAS, Kitchen, Parking, Staircase pressurization, Smoke management) > Energy Modeling(Concept to Detailed design, Smart buildings, Form, Envelope, HVAC analysis per ASHRAE) > Coordination
• Al Khor Stadium, Doha, Qatar
• EPAL Headquarters Building, Angola
• Princess Nora University, KSA
• La Plage South, Pearl Qatar, Qatar Junior Level 1 Eng + 1 D Jan. 2009 – Mar. 2009 <u>FEATURES:</u> Core & Shell Retail 120 Shops Food Courts Restaurant Utility Room
• Hajj Terminal Load Center & Ancillary Building, KSA Junior1 Eng + 1 D

IES, India	DESIGN CONSULTANT	4 Eng Oct 201	10 – Feb 2011	(0Y 5M)
	sign Analysis Geometry Thermal ass sultation, Preparing & submit QSAS)	signment HVAC setti	ngs Optimizatio	n)
	, Abu Dhabi, UAE all High Rise, 9 B + 26 Levels LEEI			
Mindhive Labs Solutions, Pune, In	ndia DESIGN ENGINEER	Sep. 200	7 – Feb 2008	(0Y 6M)
> Website creation (Lords of Ode	ds is Sports Prediction market website ony framework Javascript MySQL N	Statistical Data Anal		
 ✓ Good Critical Thinking skills ✓ Good Multitasking skills ✓ Good Organizational skills ✓ Good Leadership skills 	Verbal Written Presentation Fast I Research Conceptualize Evaluate Planning Resource Allocation Exec Planning Scheduling Coordinating Vision Inspire Motivate Strategize Prepare Discuss Clarify Goals Neg	Analyze Synthesize cution Review Merg Resources Time Man e Review Mentor Expression Express	Create ing New Tasks agement xcel Build Team	'
		ASHRAE	USGBC IBPSA	\-USA
CONFERENCES & WORKSH	<u>IOPS</u>			
 'Designing with Climate' 'Estidama', 'Applying the Pea 'High Performance Green Bui	proving Indoor Air Quality'organby Joel Loveland, Integrate rl Building Rating System' by ldings'	ed Design Lab, Univers Abu Dhabi Urban Plan organized by ASHI	sity of Washingto nning Commissio RAE Pune Chapte	on, USA. on, UAE. er, India.

'Using Standard 90.1-2007 to meet LEED requirements' by Mack Wallace, J Deringer, India. **'York Equipments & Controls'** by Johnson Controls at Dar Al-Handasah, India. **'Advanced training in Revit for MEP families'** at Dar Al-Handasah, Beirut, Lebanon.