

SHIBLI AFAQ

Urban Designer | Licensed Architect | M.Sc. Smart & Sustainable Cities
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SUMMARY

Licensed Architect (Council of Architecture, India) with 4+ years delivering commercial, educational, and residential projects from concept design through municipal documentation, now completing an M.Sc. in Smart and Sustainable Cities at KFUPM (GPA 4.0/4.0) applying Geographic Information Systems (GIS), Urban Analytics and remote sensing to study the urban environment at metropolitan scale. Advanced in AutoCAD, SketchUp, Revit, and ArcGIS Pro. Proven coordination of multidisciplinary teams with architects, engineers, landscape designers, and contractors, with direct client and government stakeholder engagement. Seeking an Urban Designer role bringing design delivery and evidence-led sustainable urban design to masterplanning in the Gulf.

EDUCATION

King Fahd University of Petroleum and Minerals

Dhahran, Saudi Arabia

Master of Science in Smart and Sustainable Cities

Aug 2025 - Aug 2026

Specialization in Smart City, Urban Informatics & Sustainability

Cumulative GPA: 4.0/4.0

Thesis: Smart Digital Twin Framework for Urban Heat Island Monitoring, Forecasting, and Mitigation

Relevant Courses: GIS & Spatial Analysis; Urban Informatics; Smart City Systems & IoT; Environmental Economics; Circular Economy; Big Data Analytics

Birla Institute of Technology (BIT), Mesra

Ranchi, India

Bachelor of Architecture (B.Arch.)

Jul 2016 - Jun 2021

Cumulative GPA: 7.61/10.0 (First Class with Distinction)

Awards: 1st Place Interior Design Trophy (Zonasa 2019); 2nd Place Café Design (NASA 2017); Shortlisted Main Design Trophy (Zonasa 2018); National Top 66: Embark Competition (ANDC 2019)

PROFESSIONAL EXPERIENCE

Metarch Studios

Ranchi, India

Project Architect

Mar 2022 - Aug 2025

- Led full project lifecycle for a **\$720K portfolio** of commercial (restaurants), educational (schools), and residential development projects, from design concept through construction documentation and municipal approval; achieved **100% on-time and on-budget** delivery
- Coordinated multidisciplinary project teams of architects, engineers, landscape designers, and contractors across 4 simultaneous project types; reduced construction change orders by **8%**
- Engaged clients throughout design development and presented design solutions and project updates, improving client satisfaction by **20%** above baseline through Building Information Modeling (BIM) workflows and advanced 3D visualization
- Established design standards and documentation guidelines that raised team drawing delivery speed by **15%** and improved consistency and attention to detail across all deliverables

Medicfibers

New Delhi, India

Graphic Designer

May 2021 - Apr 2022

- Created strategic pitch decks, presentations, and brand materials supporting major investment funding campaigns
- Developed social media strategy increasing brand visibility by **40%** and audience engagement threefold

Jaiswal and Associates

New Delhi, India

Architectural Intern

Jan 2021 - May 2021

- Created 3D models, renders, floor plans, sections, & elevations for 10+ diverse projects (residences, group housing, factories) using industry-standard software
- Designed and drafted a high-profile kiosk for MS Dhoni's organic farm business, adhering to branding guidelines and exceeding client expectations

Metarch Studios

Ranchi, India

Architectural Intern

May 2019 - Jun 2019

- Produced computer-aided design (CAD) working drawings and 3D models/renderings for interior and exterior design projects

Chadda and Associates

Ranchi, India

Architectural Intern

May 2018 - Jun 2018

- Contributed floor plans, sections, elevations, and construction drawings for private clients and government agencies

RESEARCH & PROJECTS

Twin Tower Complex: Mixed-Use Development

Jan 2020 - Jun 2021

B.Arch. Thesis, BIT Mesra

Designed a 69-storey net-zero mixed-use development integrating residential, commercial, and public program, with earthquake-

resilient structure, passive energy systems, full BIM model, and complete municipal documentation package

- **Smart City Big Data Projects: IoT Pipeline Multi-City UHI Analysis** Jan - May 2026
Course Projects, ICS 574: Big Data Analysis, KFUPM
IoT Pipeline: 5-layer Kafka/Spark streaming architecture; 300+ concurrent sensors; <10-min latency; ML forecasting (R2 = 0.876); Docker deployment , Temperature Analysis: Landsat 8/9 thermal imagery at 30 m for 134 cities along a north-south transect, from Tromsø at 70°N to Punta Arenas at 53°S.
- **Site Analysis & Heat Vulnerability Mapping: Dammam Metropolitan Area** Jan - May 2026
Term Paper, CRP 583: Urban Informatics, KFUPM
Conducted a five-step GIS and remote sensing site analysis of built-up density, vegetation cover, and surface temperature across 12,954 grid cells (3,238 sq km), translating site conditions into sustainable urban design strategies; isolated a 57.3 sq km priority intervention zone for cooling and green infrastructure investment
- **Smart Digital Twin Framework for Urban Heat Island (UHI) Monitoring** Aug 2025 - Aug 2026
M.Sc. Thesis, KFUPM | Vision 2030 aligned; GCC-scalable
Built a Heat Vulnerability Index combining demographic data with satellite observation across 5 Saudi cities, identifying 100,000+ at-risk residents to support strategic design decisions; quantified the 2 to 5 degrees Celsius cooling potential of green infrastructure interventions
- **Transport Corridor Study: Aramco Stadium Corridor, Al Khobar** Jan - Apr 2026
Term Paper, CE 584: Intelligent Transportation Systems, KFUPM | Team of 3
Evaluated 4 intelligent transportation system alternatives via a structured scoring matrix; recommended an integrated ATMS/ATIS/Smart Parking framework projecting a 20 to 35% travel time reduction, benchmarked against Qatar 2022 and London 2012

PUBLICATIONS

A SYSTEMATIC REVIEW OF SOUNDSCAPE AND THERMAL COMFORT IN HOT-ARID CITIES	2026
<i>Discover Cities</i> , Springer Nature Open Access Vol. 3, Art. 123 (2026) Published 26 June 2026 doi.org/10.1007/s44327-026-00314-z PRISMA 2020 review of 1,011 studies; developed the Integrated Thermal-Acoustic-Perceptual (ITAP) framework for evidence-based public space design in extreme-heat climates	
SMART DIGITAL TWIN FRAMEWORK FOR URBAN HEAT ISLAND (UHI) MONITORING	2026
<i>Status: Manuscript in Preparation</i>	
GIS AND REMOTE SENSING-BASED ASSESSMENT OF URBAN HEAT ISLAND IN DAMMAM	2026
<i>Status: Manuscript in Preparation</i>	
ITS-BASED CONGESTION MANAGEMENT FOR EVENT CORRIDORS IN ARID CITIES	2026
<i>Status: Manuscript in Preparation Co-authors: H. Alnasser, H. Alghamdi</i>	

LEADERSHIP & ACTIVITIES

Student Society of Architecture, BIT Mesra	Ranchi, India
<i>Vice President</i>	2019 - 2020
Organized events for a 300+ member organization; led Vajra Pavilion 2018 (30+ volunteers, on-budget delivery)	
Student Society of Architecture, BIT Mesra	Ranchi, India
<i>General Secretary</i>	2018 - 2019
Organized workshops and events to facilitate skill development for junior students	
National Service Scheme, BIT Mesra	Ranchi, India
<i>Executive Member</i>	2016 - 2018
Monitored the welfare of 10 villages; organized educational initiatives, blood drives, and medical camps	

CERTIFICATIONS

Licensed Architect: Council of Architecture, India (CA/2021/136485)	Jun 2021
Associate Member: Indian Institute of Architects (IIA), Jharkhand Chapter	Sept 2024

SKILLS

Urban Design & Architecture: AutoCAD, SketchUp, Revit, ArcGIS, Building Information Modeling (BIM), Rhino, Urban Planning Principles, Mixed-Use Development, Site Analysis, Urban Design Concepts, Design Guidelines, Technical Documentation, 3D Visualization, Photoshop, InDesign

Geospatial & Analysis: ArcGIS Pro, Geographic Information Systems (GIS), Google Earth Engine (GEE), Remote Sensing Analysis, Heat Vulnerability Mapping, Spatial Statistics, Getis-Ord Gi* Hotspot Analysis

Sustainable Design: Net-Zero Design, Passive Energy Systems, Green Infrastructure Planning, Urban Heat Island (UHI) Mitigation, Climate Resilience, Circular Economy

Project & Stakeholder: Multidisciplinary Team Coordination, Client Engagement, Government and Community Stakeholder Engagement, Project Lifecycle Delivery, Design Presentations, Site Assessment

Data Science & Programming: Python, Machine Learning, Streamlit, Plotly, Docker, GitHub, Systematic Literature Review (PRISMA 2020)

Languages: English: Professional Working; Hindi: Professional Working; Urdu: Native