ARSLAN QAISER

Lahore, Pakistan | arslan.qaiser1991@gmail.com

Architect & Lead BIM Coordinator
Specializing in Parametric Design, Computational Optimization, and Digital Fabrication

EDUCATION

Bachelor of Architecture (B.Arch) | National College of Arts (NCA), Lahore, Pakistan (2013-2018)
Graduated with Distinction in Architectural Design | *Core Focus: Spatial Theory, Advanced Structural Systems, Digital Representation*

PROFESSIONAL EXPERIENCE

Principal Architect & Lead BIM Coordinator | Trident Construct Ltd (2025-Present)
Managed multi-disciplinary BIM coordination, structural modeling, and MEP clash detection for multi-story residential developments. Executed material quantity takeoffs, rebar scheduling, and collision reports for structural execution. Developed parametric scripts to automate complex profile generation and lofted floor transitions.

Computational Design Consultant | Independent/Remote (2018-2025)

Authored custom Grasshopper and Python scripts for digital fabrication, structural paneling, and acoustic ceiling features. Performed microclimate solar radiation and wind-rose mapping to dictate building massing, roof pitch, and energy performance. Integrated parametric logic into ArchiCAD via custom GDL components and Tapir API workflows.

Architectural Consultant | A.E.D.L., Lahore, Pakistan (2016-2018)

Facilitated the transition from conceptual design to construction documentation and site implementation. Developed detailed architectural and structural drawing sets adhering to international building codes and spatial standards.

SOFTWARE PROFICIENCY

Parametric & Computational: Rhino, Grasshopper (Ladybug, Karamba3D, OpenNest, Kangaroo 2), Python, GDL Scripting
BIM & CAD: ArchiCAD, AutoCAD, Tapir API, IFC Data Parsing
Visualization & Graphics: Twinmotion, V-Ray, Adobe Illustrator, Photoshop CC, Canva
Development & Tools: VS Code

RESEARCH & CASE STUDIES

- **Computational Design & BIM:** Algorithmic form-finding, parametric optimization, automated data extraction, API integration, and custom GDL object scripting.

  Environmental & Structural Physics: Microclimate solar radiation, shadow dynamics, passive design optimization, load distribution, and structural deflection analysis.

  Polybios Lunar Colony (Thesis Project): Computational masterplan utilizing 1.0g rotational artificial gravity, closed-loop life support (CELSS) mapping, and regolith radiation shielding.

  Barndo Florida (Residential Project): Performance-driven massing integrating environmental solar analysis with Insulated Concrete Form (ICF) construction detailing.