

Clément El Hadri | AI-Driven Architectural Technology Engineer

Paris, France – Open to NYC / DC / Remote Opportunities

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Executive Profile

Innovative Architectural Technologist with over 5 years of experience at the intersection of structural engineering, computational design, and AI. Specialist in architecting intelligent BIM workflows and automation systems for billion-dollar infrastructure projects. Recognized for a systems-thinking approach to complex problem solving, transforming raw data into high-performance construction assets through Python-based automation and advanced digital coordination.

Core Capabilities

Systems & Automation: BIM Workflow Engineering, Python/Revit API Development, Rule-Based Validation Systems.

Digital Execution: Structural Coordination (LOD 400), IFC Data Interoperability, QA/QC Automation.

Computational Design: Parametric Modeling (Dynamo), Data-Driven Optimization, Predictive Clash Analysis.

Advanced Visualization: High-Fidelity VDC, Unreal Engine 5, Blender, Immersive Project Communication.

Professional Experience

Fayat Fondations (Franki Fondation)

Paris, France

AI-Enhanced BIM & Architectural Technology Specialist

2022–Present

- **APHP Saint-Ouen Healthcare Infrastructure:** Engineered technical plans for complex foundations (diaphragm walls, injection, site logistics). Developed and integrated 3D models into the existing BIM environment to ensure structural alignment and inter-disciplinary coordination.
- **Workflow Optimization:** Developed AI-assisted BIM workflows to minimize design errors and optimize modeling precision through automated data processing.
- **Monaco High-Rise Development (Schuykill Tower):** Developed complex structural models and spearheaded multi-disciplinary BIM coordination. Executed advanced clash detection protocols across all trades to ensure seamless infrastructure integration.
- **Grand Paris Express (Line 15):** Developed 2D method plans and modeled complex ancillary structures within a large-scale, multi-disciplinary BIM environment. Ensured seamless structural integration across all project lots through advanced digital coordination.

Franki Fondation

Grigny, France

Digital Modeling & BIM Systems Developer

2020–2022

- **LVMH Art et Talents:** Developed context models and orchestrated the integration of the roadworks package. Optimized design layouts through advanced clash detection analysis, ensuring seamless inter-disciplinary coordination.
- **Corporate Strategy:** Authored the company's first BIM Charter and technical governance framework, significantly increasing bid competitiveness for high-profile tenders.
- **VDC Visualization:** Developed immersive visualization pipelines using Unreal Engine 5 to bridge the communication gap between technical engineering and executive-level stakeholders.

Education

INSA Hauts-de-France

Valenciennes, France

Master of Science (M.S.) in Digital Engineering

2022–2024

- **Specialization:** Collaborative Digital Engineering for Construction (IN2C).
- **Core Curriculum:** BIM Management Strategy, AI in AEC, Data Interoperability (IFC/BCF), and Lifecycle Information Management.
- **Thesis/Project:** Focused on the optimization of structural data flows using computational tools and rule-based automation.

Université Gustave Eiffel

France

Bachelor of Science (B.S.) in Civil Engineering

2019–2020

- **Specialization:** BIM Design and Structural Drafting (LOD 400).
- **Focus:** Advanced modeling of complex foundations and execution-level technical documentation within collaborative environments.

Technical Stack

Expert: Revit (Advanced/API), Python (Automation), Dynamo, Navisworks.

Proficient: AutoCAD, Unreal Engine 5, Blender, IFC/BCF Standards, \LaTeX .

Languages: French (Native), English (Full Professional Proficiency), Spanish (Elementary).