**Hamza Bilal Dodhy**

Architectural Engineer | LEED® Green Associate™ | Experience: 1 year(s) | Age: 22 | Dubai, UAE

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**CAREER GOALS**

My career ambitions encompass a multifaceted scope, with a central emphasis on architectural engineering, interior design and project management. Dedicated to crafting functional, aesthetically pleasing spaces while pioneering the integration of AI and sustainable practices to redefine productivity, innovation, and functionality within the architectural sector. Taking initiative in learning and consistently delivering unique spaces that exceed clients' expectations and leave a lasting impression.

**EXPERIENCE**

**DAMAC PROPERTIES** *Dubai, UAE*

(Architect) *September 2023 – August 2024*

* Developed the understanding of **test fits** using **AutoCAD** and **Revit**, in accordance with DBC.
* Designed detailed mood boards and templates for **private mansion**.
* Involved in understanding of **large-scale masterplans**.
* Worked on different phases of **launching a masterplan** including residential apartments, villas and townhouses.
* Took initiative in **idealizing masterplans**.
* Responsible for **developing presentations** specifically used for the **launch of various residential projects**.
* Used **Revit** to create **test fits** for **high-rise towers**.
* Observed **technical meetings** and planned ideas for presentations and test fits accordingly.
* Worked in **high end projects** involving **residential villas**.
* Compiled projects from various **architectural consultants**, simplifying the selection process for different projects.
* Implemented **AI (Midjourney)** to assist in **visualizing numerous amenities** used in projects.
* Drafted presentations with **unique ideas** for **design briefs**.
* Assisted in **design thinking** of amenities.

(Project Management and Design Intern)

* Generated creative ideas and crafted mood boards for design concepts for **Amira Sajwani.**
* **Managed time** effectively to meet **project deadlines** for DAMAC and PRYPCO.
* Presented design ideas in **team meetings**.
* Completed tasks involving creating **development briefs** for various projects.
* Attended and finished an **AI course in Midjourney**.
* **Used AI** effectively to help **meet deadlines** for the design team.

**ARCHCORP ARCHITECTURAL ENGINEERING** *Dubai, UAE*

(Architectural Intern) *June 2021 – July 2021*

* Interior designing – Selected tiling, paints and decorations, tabulated into Microsoft Excel and visualized in Autodesk Revit.
* Communicated with top-tier companies for landscaping requirements.
* Exterior façade elements designed in AutoCAD and Autodesk Revit.
* Contributed to helping the company time manage and improve negotiations using simplicity in communication and punctuality.

**DODHYS MEDICAL LIMITED** *Sharjah, UAE*

(Project Management Intern) *June 2020 – August 2020*

* Determine and implemented a filing system to help the company save time and storage.
* Managed a team for designing 3D models of various medical architectural parts using Fusion 360.
* Operated a CNC machine to manufacture medical architectural parts.
* Assisted in time management and cost efficiency for the company.

**PROJECTS**

* **DAMAC Safa 3:** Learnt and developed a functional test fit for the DAMAC Safa 3 project. Created design options for the façade of the high-rise building.
* **Architectural Conceptual Brochure:** Curated and arranged exterior and interior design elements into mood boards to assist ***Amira Sejwani*** in initiating a villa project.
* **Lighting Comfort Dissertation:** Conducted qualitative and quantitative analysis on lighting comfort in hotel rooms in Dubai and Abu Dhabi.
* **Commercial Building Design**: Collaborated with architects and civil engineers using Autodesk Revit, AutoCAD, and ANSYS CFD for detailed research and design.
* **MEP and Structural Solutions:** Applied Revit for the development of MEP systems and structural designs.
* **Dynamic Airflow Simulation:** Utilized ANSYS CFD for air conditioning performance optimization.
* **Cooling Load Analysis:** Calculated loads based on IES-VE and CIBSE Guides for energy-efficient designs.
* **Building Audit:** Performed detailed audits using Microsoft Excel for data-driven evaluations.

**EDUCATION**

**HERIOT-WATT UNIVERSITY** *Dubai, UAE*

*Bachelor’s in architectural engineering with honors Sep 2018 – April 2023*

* GPA: 3.2
* Completed thorough dissertation with the topic of Lighting Comfort in UAE hospitality.
* **Relevant Courses:** Dissertation, Design Project, eConstruction, Mechanics, Hydraulics, Critical Building Analysis, and Environment and Behavior.
* Grades ranging from A to C.

**CERTIFICATION(s)**

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**LEED® Green Associate™** *Dubai, UAE*

Valid through: October 2024 – October 2026

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| **Expertise** | **Level** | | **Skills** | **Level** | |
| Autodesk Revit |  | 90% | Design Thinking |  | 90% |
| Enscape |  | 85% | Project Management |  | 85% |
| Autodesk AutoCAD |  | 75% | Interior Designing |  | 75% |
| Autodesk Fusion 360 |  | 85% | Software Management |  | 95% |
| AI - Midjourney |  | 95% | Organizational Skills |  | 95% |
| AI - Prome |  | 95% | Taking Initiative |  | 95% |
| AI - Foyr Neo |  | 95% | Communication |  | 85% |
| IES - VE |  | 70% | Practicality |  | 90% |
| Microsoft Word |  | 95% | Risk Taking |  | 90% |
| Microsoft PowerPoint |  | 95% | Team Building |  | 85% |
| Microsoft Excel |  | 75% | Adaptability |  | 95% |
| ANSYS CFD |  | 70% | Time Management |  | 95% |

**SOFTWARES EXPERTISE & SKILLS**