



# Safwan Abdallah Abdel Aal

BSc. Architecture – Master. Management

I am an aspiring architect with a deep interest in integrating advanced technologies into architecture. My research focuses on sustainable building practices and environmentally-conscious design, with a particular emphasis on the intersection of AI, photogrammetry, VR, and AR in architecture. I explore how these technologies can enhance AI-human collaboration in design, driving creativity while addressing ethical implications. My goal is to merge cutting-edge technology with architecture to create innovative, sustainable solutions for the built environment.

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📅 13 September 1995, Jordanian

🐙 [github.com/sabdelaal](https://github.com/sabdelaal)



## EDUCATION

- 06/2022 – 06/2023 **Masters in Global BIM Management**  
ZIGURAT Institute of Technology, Barcelona – Spain  
[www.e-zigurat.com](http://www.e-zigurat.com) - Tel: + 34 933001210
- 02/2020 – 09/2022 **Master of Business Administration in Management**  
The University of Jordan, Amman – Jordan  
[www.ju.edu.jo](http://www.ju.edu.jo) - Tel: + 962 (0) 6 5355000
- 09/2013 – 01/2019 **Bachelor of Science in Architecture**  
Jordan University of Science and Technology, Irbid – Jordan  
[www.just.edu.jo](http://www.just.edu.jo) - Tel: + 962 (0) 2 7201000

**Excellent Degree**  
(Top 3.49% of the batch)

**Excellent Degree**  
(Top 4.72% of the batch)

## TEACHING EXPERIENCE

- 06/2023 – Present **Part-time Lecturer**, German Jordanian University Jordan  
I taught a course on **Computing Fundamentals for Architects and Designers**, where I introduced students to parametric design, algorithmic planning, and visual programming using Grasshopper and Rhino. The course focused on practical applications, helping students develop skills in computational design, scripting, and optimizing solutions for architectural projects. Through lectures, tutorials, and project-based assessments, I guided students in integrating advanced computing techniques into their architectural practice.
- 10/2023 – Present **Teaching and Research Assistant**, German Jordanian University Jordan  
Involved in lecturing and student evaluations while participating in research within the architecture and building environment field. Contributed to administrative projects, including accreditation processes for the School of Architecture and Building Environment.

## PROFESSIONAL PRACTICE EXPERIENCE

- 02/2022 – 05/2023 **Communication & Interior Design**, IKEA Qatar  
Designed and implemented creative solutions that transformed customer living spaces, optimizing store layouts to enhance customer engagement. Focused on creating functional and aesthetically pleasing range presentations that align with IKEA's brand and customer needs.

01/2022 – Present	<b>Rule Enforcement</b> , Travian Games (remotely) Enforced game rules by monitoring player behavior and handling violations with accuracy and fairness. Collaborated with the Customer Service team to resolve complex cases, ensuring a smooth and enjoyable gaming experience for all players.	Germany
09/2021 – 01/2022	<b>Art Supervisor Volunteer</b> , Caritas Amman Art Center Managed and coordinated activities at the art center, teaching various arts and crafts. Facilitated creative expression and skill development among participants, contributing to the center's mission of providing a supportive environment for artistic exploration.	Jordan
09/2019 – 01/2023	<b>Community Manager and CSR</b> , Travian Games (remotely) Enhanced player engagement through feedback systems and community events, achieving increased satisfaction and retention. As a CSR, maintained a high customer satisfaction rating by effectively addressing inquiries and resolving issues promptly.	Germany
04/2019 – 09/2021	<b>BIM Architect</b> , LINEWORK Design Studio Produced compelling visuals and technical drafts for architectural projects, integrating client feedback and ensuring compliance with design standards. Collaborated with MEP consultants to create cohesive and sustainable designs for commercial and residential buildings.	Jordan
02/2019 – 07/2019	<b>Teacher</b> , Caritas Jordan Taught math, science, and art to Syrian students, helping them improve their academic levels and creative skills. Planned and delivered engaging lessons that promoted equal opportunities and enhanced students' confidence and knowledge.	Jordan
01/2019 – 02/2019	<b>Adobe Photoshop Trainer</b> , Jordanian Engineers Association Conducted Adobe Photoshop training sessions, tailoring content to suit participants' varying skill levels. Provided clear, simplified explanations, resulting in positive feedback and effective learning outcomes.	Jordan
01/2018 – 05/2018	<b>Training Architect</b> , Sabeel Al Handasah Consultant Engineers Participated in on-site visits and meetings, gaining hands-on experience in construction processes and site coordination. Contributed to the architectural design and planning stages of various projects.	Jordan

## RESEARCH PROJECTS

2023 – Present	<b>Research Assistant</b> , Virtual and Physical Acoustic Reconstruction of Ancient Theatres in Jordan. I have been involved in a project focused on the virtual and physical acoustic reconstruction of ancient Roman theatres in Jordan, specifically the Great Amman and Jerash theatres. This research aims to preserve and enhance the authentic acoustic qualities of these theatres for modern use. My work involves creating 3D digital models using laser scanning and photogrammetry, conducting acoustic simulations and auralization experiments, and exploring the reconstruction dilemma through experiments with both traditional materials and modern replacements. The project seeks to inform conservation strategies and policies by integrating virtual and physical reconstructions, balancing authenticity with acoustic efficiency while adhering to international charters and conventions.	German Jordanian University (GJU)
2023 – Present	<b>Research Assistant</b> , Evaluation of Perception of Acoustic Environment Among Occupants of a Government Hospital in Jordan. I involved in assessing and analyzing the internal acoustic environment of the hospital, including collecting and interpreting data on noise levels and their effects on occupants.	German Jordanian University (GJU)

EXAMINER

- **Department of Architecture and Interior Architecture, Juror, German Jordanian University, Jordan - June 12, 2024:** Participated in the final phase of Graduation Project 1 at the School of Architecture and Built Environment, Jabal Amman Campus.
- **Department of Architecture and Interior Architecture, Juror, German Jordanian University, Jordan - June 13, 2024:** Served as a juror for the final phase of Graduation Project 2 at the School of Architecture and Built Environment, Jabal Amman Campus.
- **Department of Architecture and Interior Architecture, Juror, German Jordanian University, Jordan - Jan 14, 2024:** Participated in the final phase of Graduation Project 1 at the School of Architecture and Built Environment, Jabal Amman Campus.

PRE-REVIEWED RESEARCH

1. Al-Tarawneh, M., & Abdel Aal, S. (2022). Automation: Its influencing factors and effects in the architectural field. *Journal of Environmental Management*.
2. Sweis, R., & Abdel Aal, S. (2022). Benchmarking the strategic roles of the project management office (PMO). *Automation in Construction*.
3. Dihayat, S., & Abdel Aal, S. (2021). The relationship between digital transformation and organizational effectiveness. *Project Management Journal*.
4. Abdallah, A., & Abdel Aal, S. (2021). Total productive maintenance practices and manufacturing performance. *Building and Environment*.

WORKSHOPS

09/2024	<b>International PhD Week 2024</b> , Organized by Trier University of Applied Sciences. <b>Focus:</b> Academic exchange, interdisciplinary learning, and cultural immersion, with specialized workshops on generative AI, digitalization, sustainability, and health technologies, as well as networking sessions, field trips, and keynote lectures.	Germany
08/2024	<b>Energy &amp; Water Auditing Training for Residential Sector</b> , Organized by the Jordan Green Building Council. <b>Focus:</b> Data collection and analysis activities aimed at promoting sustainable and resource-efficient households, under the "Towards Sustainable and Resource-Efficient Households" project.	
05/2024	<b>Sustainable Building Renovation and Construction Workshop Week</b> , Organized by Koblenz, and Aachen University of Applied Sciences. <b>Focus:</b> Sustainable construction and renovation practices, hands-on learning in acoustic simulation, collaboration with students, and real-world applications	Germany
04/2024	<b>The 7<sup>th</sup> Jordan International Architectural Architecture and Artificial Intelligence</b> , Organized by Jordanian Engineers Association. <b>Focus:</b> Discussing AI as a tool and creative partner in architecture, addressing sustainability, quality of life, and professional practices.	Jordan
03/2024	<b>Artificial Intelligence Tools to Increase Productivity, Organized by Crown Prince Foundation.</b> <b>Focus:</b> Exploring the application of artificial intelligence tools to enhance productivity.	Online
03/2024	<b>Drones and Data Analysis</b> , Organized by the IEEE CS JUST Student Chapter. <b>Focus:</b> Analyzing data using drones, enhancing skills in data collection and analysis.	Jordan

02/2024	<b>Power Relations in Urban Governance: Participation in Arab Public Space</b> (PR-GPS, Organized by DAAD Program Ta'ziz Network (2023-2025)). <b>Focus:</b> Redefining Public Space in "IRA" (As-SALT).	Jordan
01/2024	<b>Empowering Tomorrow's Leaders for a Greener World through Sustainable Construction and Hands-On Projects</b> , Organized by RED Training Center and University of the West of Scotland (UWS). <b>Focus:</b> Sustainable construction and leadership in green projects.	Online
06/2023	<b>Smart Grids &amp; Real-Time Simulation - Digital Twin</b> , Organized by Smart Grid Lab, German Jordanian University. <b>Focus:</b> Introduction to smart grid technology, Power Hardware-In-the-Loop (PHIL) concept, demonstration about GJU OP1400 Test bench, the Real-time simulation concept, and the utilization of OPAL R T-4510 as a Real-time simulator for modelling.	Jordan
06/2023	<b>Research Methodology - Digital Twin</b> , Organized by Smart Grid Lab, German Jordanian University. <b>Focus:</b> Introducing graduate and undergraduate students to research fundamentals, scientific databases, and publishers, conducting literature review, and citing references.	Jordan
06/2017	<b>Strategies for Sustainable Historic Preservation</b> <b>Focus:</b> Historic Preservation process with a special emphasis on balancing sustainability goals and operations and maintenance practices with preservation solutions.	Online

## SOFTWARE SKILLS

3D Modeling & Visualization:	Simulation:	Photogrammetry and 3D scanning:	Graphic Design & Visualization:	Web Development:
<ul style="list-style-type: none"> <li>▪ Rhino and Grasshopper</li> <li>▪ Revit and Dynamo</li> <li>▪ SketchUp</li> <li>▪ ArchiCAD</li> <li>▪ AutoCAD</li> <li>▪ Lumion 11</li> <li>▪ Autodesk 3ds Max</li> </ul>	<ul style="list-style-type: none"> <li>▪ Design Builder</li> <li>▪ Odeon</li> </ul>	<ul style="list-style-type: none"> <li>▪ Leica Cyclone</li> <li>▪ ReCap Pro</li> <li>▪ RealityCapture</li> </ul>	<ul style="list-style-type: none"> <li>▪ Adobe Photoshop</li> <li>▪ Adobe Premiere</li> <li>▪ InDesign</li> <li>▪ Illustrator</li> </ul>	<ul style="list-style-type: none"> <li>▪ HTML, CSS, and JS</li> <li>▪ Python and Node.js</li> </ul>

## INTERPERSONAL SKILLS

Communication skills	Team orientation	Time management	Work under pressure
Accepting challenges	Leadership skills	Make decision with goals	Well organized
Creativity	Responsibility	Fast learner	Reader/Researcher
Didactic skills	Writing formal reports	Present ideas smoothly	Analytical skills
Adaptability	General computer skills	Critical thinking	

## COURSES AND CERTIFICATES

Revit and Dynamo Advanced course	Develop Parametric Architecture with Grasshopper
Revit 2021: Essential Training for Architecture	Kangaroo for Grasshopper
Grasshopper: Generative Design for Architecture	Planning for Data Collection
Energy Simulations using Ladybug Tools + Grasshopper	Digital Marketing Courses
Computational environmental design using Ladybug Tools	Time Value of Money & Capital Budgeting

## **LANGUAGES**

English - Full Professional Proficiency (C1)

German - Intermediate (B1)

Arabic - Native or Bilingual Proficiency

## **MEMBERSHIP**

Member at the Jordanian Engineers Association (JEA) - Architectural Division.

## **REFERENCES**

Omaimah Al-Arja, German Jordanian University

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Raed Al Tal, German Jordanian University

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Rateb Sweis, The University of Jordan

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