

# Wael Ben Mohamed

## Building Construction Engineering Student BIM, Structural Engineering & Project Management

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### Profile

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Building Construction Engineering student at the University of Bologna with a computer science background and hands-on experience in BIM-based design, structural detailing, structural engineering, urban analysis, appraisal, construction economics, and multidisciplinary project work. Combines engineering training with project management, digital problem-solving, and leadership experience through academic projects, freelance development, AIESEC team leadership, and international volunteering. Seeking internships and early-career opportunities across engineering, structural engineering, project management, construction, and technology-enabled project delivery.

### Education

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#### University of Bologna

*Bachelor's Degree in Building Construction Engineering*

Ravenna, Italy

Sep 2024 – Expected 2027

Selected coursework: Structural Mechanics, Hydraulics, Geotechnical Engineering, Building Physics, Construction Industry Economics, BIM, Building Site Production and Management, Sustainable Building Assessment

#### Hay Lamal High School

*Baccalaureate in Computer Science, High Honors*

Gabes, Tunisia

Sep 2022 – Jun 2023

### Selected Projects

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#### Single-Family Villa Design

Jan 2026

- Coordinated task allocation, meetings, deadlines, and deliverable integration within a team-based architectural project.
- Produced architectural deliverables including AutoCAD drawings, a Revit model, and D5 visualizations.
- Contributed to the final submission package with floor plans, BIM outputs, presentation boards, renders, and project documentation.

#### Structural Design and Construction Details for a Single-Family Villa

Jan 2026

- Developed the structural design of a single-family villa in a 2-person follow-up project after the architectural phase.
- Prepared structural drawings and technical construction details to translate the architectural concept into buildable documentation.
- Supported the technical development of the project through coordinated structural and construction outputs.

#### Urban Analysis and Regeneration Study

May 2025

- Contributed to a 6-person urban analysis project on Ravenna's Darsena district focused on morphology, land use, mobility, and public space.
- Produced GIS-based thematic maps and analytical materials on urban fabric, transport systems, and green-blue infrastructure.
- Supported SWOT, perceptual, and social analysis that informed the final urban regeneration proposal.

#### Real Estate Appraisal Analysis, Ravenna

Dec 2024

- Conducted an individual property appraisal using direct comparison and mono-parameter valuation methods.
- Analysed the market area, selected comparable properties, prepared fact sheets, and organised valuation data.
- Delivered a final appraisal report with comparative analysis and estimated market value.

#### Cash-Flow Analysis for Land Development Project

Dec 2024

- Performed an individual cash-flow analysis for a residential land development case study in Torino.
- Evaluated land cost, planning fees, construction costs, financial charges, and projected revenues.
- Used spreadsheet-based analysis to assess project feasibility and estimate net investment value.

### Leadership and Volunteering

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#### AIESEC

*Team Leader, Outgoing Global Volunteer*

Bologna, Italy

Sep 2025 – Jan 2026

- Led a team of 5 by organising meetings, assigning responsibilities, training members, and monitoring weekly follow-up.
- Supported outreach and follow-up activities to improve lead conversion for student exchange opportunities.

*Outgoing Global Volunteer Member*

Feb 2025 – Aug 2025

- Conducted outreach and follow-up calls to support student exchange opportunities and lead conversion.

**AIESEC / American Life School**

Konya, Turkey

*Volunteer English Teacher*

Jun 2024 – Jul 2024

- Taught English to learners aged 6–30 in an international volunteer program.

## Experience

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**Freelance Web Developer**

Remote

*Self-employed*

Feb 2024 – Present

- Developed, tested, and deployed websites and web platforms using Next.js, MERN, and Django.
- Managed project communication, revisions, testing, and final delivery across multiple client and personal projects.

**Mio Bamby Company**

Gabes, Tunisia

*Web Developer*

Sep 2023 – Nov 2023

- Built a Django dashboard for an e-commerce business to manage inventory, products, orders, customers, sales, and stock.

**HR Digital Company**

Gabes, Tunisia

*Web & Marketing Assistant*

Sep 2023 – Jan 2024

- Supported website development, digital content production, and visual communication using Next.js, Adobe Illustrator, and Adobe Photoshop.

**Withlocals**

Ravenna, Italy

*Tourist Guide*

Jan 2025 – Dec 2025

- Led guided tours for English-speaking visitors and communicated local historical and cultural content to international guests.

**Coopservice**

Ravenna, Italy

*Baggage Handling and Customer Support*

Jul 2025 – Sep 2025

- Assisted passengers with luggage, guidance, and wayfinding in a fast-paced, high-pressure service environment.

## Technical Skills

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**Engineering & Project Tools:** Revit, AutoCAD, D5 Render, MS Project, QGIS, SketchUp, MS Office

**Engineering Areas:** BIM, Structural Engineering, Structural Detailing, Urban Analysis, Appraisal, Construction Economics

**Development:** Next.js, MERN Stack, Django, Python, JavaScript, HTML/CSS, SQL, Git

**Robotics & IoT:** Arduino, Raspberry Pi, IoT Systems

**Creative Tools:** Adobe Illustrator, Adobe Photoshop

## Certifications and Awards

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Occupational Health and Safety Training, University of Bologna | IoT and Connected Systems Certification | PMI Project Management Training | PROMISE Regionalisation Hackathon — Third Place | First Aid and Occupational Safety | Financial Literacy Bootcamp

## Languages

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Arabic (Native) | English (C1) | French (B2) | Italian (B1) | German (A1)

## Interests

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Construction 4.0, sustainable construction, BIM and digital construction, smart buildings and IoT, urban innovation, entrepreneurship