



Redait Tsegaye Legesse

Building and Architectural Engineer
BIM Coordinator | BIM Consultant

📍 Italy 📞 +393280686284 ✉️ redaittsegaye.legesse@mail.polimi.it

WORK EXPERIENCE

BIM Coordinator

GPA Partners Srl.

05/2024- Present

Florence, Italy

Major Projects

- Borgo Castello – Andora (SV) - Urban regeneration of historic center, Andora, Italy - BIM Coordination, Part BIM modelling, Model checking, ACC managment
- Restoration of Former Fish Market Building by the famous Italian architect Luis Cosenza, Naples, Italy - BIM modelling, Executive drawing preparation, and Coordination
- The red house, former home of Andrea Del Sarto, Avane, Italy - BIM modelling, Executive drawing preparation, and in Coordination with ARCHEA srl.

BIM Consultant

iDEAS Engineering and Architecture Studio Srl.

11/2023- 04/2024

Naples, Italy

Major Projects

- Shusha Mosque in Shusha, Azerbaijan- BIM modeling, Content Creation and Coordination (collaboration with Simmetrico)
- Memorial Complex Park of the Patriotic War, Azerbaijan - BIM modeling, Content Creation and Coordination (collaboration with Simmetrico)

Junior BIM Consultant and Computational Designer

3-im SRL Virtual Projects Consulting Company

01/2023- 11/2023

Cinisello Balsamo, Italy

Major Projects

- ZNM- Zayad National Museum Design by Norman Foster Facade Modeling and Automation for CAM Technology.
- SNAM- Digital Twin Modeling for Gas pipelines with limited data that have been installed significant years ago

Junior Tutor in Urban Design and related Studio Courses

Politecnico di Milano

01/2022- 07/2022

Lecco, Italy

Major Projects

- LeccoLAB didactical path at Department of Architecture, Construction Engineering and Built Environment - ABC

Junior Architect and Internship

MH Engineering PLC.

09/2016- 04/2020

Addis Ababa, Ethiopia

Major Tasks

- 3D renderings, Drafting Drawings, Panel Illustrations, Detail Drawings and Facade Designs.

EDUCATION

Msc in Building and Architectural Engineering

Politecnico di Milano

10/2020 - 05/2023

Lecco, Italy

Courses

- Thesis Title - From Prediction to Construction: A Parametric Workflow for Volumetric Facade Panels
- Integrating Artificial Neural Networks and Smart Details to Optimize Building Solutions
- Energy Efficient Office Building Design in Milan_ Sustainable Building Technology (SBT)
- Reinventing Cities_ Sustainable Multidisciplinary Design Process (SMDP)

Bsc in Architecture (with Distinction)

EiABC, Ethiopian Institute of Architecture, Building Construction and city Development

02/2012- 01/2017

Addis Ababa, Ethiopia

Thesis Title

- Youth Rehabilitation Center- Inclusive Design

Design Computing: 3D Modeling in Rhinoceros with Python/Rhinoscript

Coursera Online Course

02/2022- 03/2022

Online

University of Michigan

SKILLS

3D/2D Design and Drawing

- Revit - Revit.Inside.Rhino (Parametric 3D modeling on Revit with native Revit functions as well as Dynamo and GH script)
- Rhinoceros 3D (Modeling with GH Script)
- AutoCAD (mainly used for 2D Drawings)

BIM & CAM Modeling

- Autodesk ACC (Autodesk Construction Cloud), model management
- IFC / Open BIM workflows
- Point Cloud (ReCap, CloudCompare)
- Solibri (IFC model validation, rule-based checking, BIM compliance verification)

BIM Automation and Algorithmic Design

- Grasshopper (+plugins) - parametric geometry, fabrication workflows - Dynamo - Revit automation, Dynamo Player deployment
- Python (Dynamo scripts, data processing)
- Prompt engineering for BIM workflows
- AI-to-BIM integration (MCP protocol)
- Revit API / Revit DB tool Development

Visualization and Data Processing

- Adobe InDesign, Photoshop, Illustrator

INTERESTS

Computational Design | Parametric Design | Generative Design | Design Optimization | Sustainable Architecture | Digital Twin | BIM