

Burak Gürtunca

Architect – BIM, Architectural Heritage and the Public Realm

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PROFILE

Registered architect (TMMOB no. 47543) with 12 years of practice across Turkey and Italy, specialised in information delivery for existing and listed buildings: LiDAR capture, scan-to-BIM modelling, IFC and openBIM workflows, technical documentation and construction delivery. Recent work in Turin includes UNESCO World Heritage fabric and the PNRR-funded restoration of Castello di Ivrea – built and in use. M.Sc. Architecture for Sustainable Design, Politecnico di Torino (2025). Five years running an independent practice in Izmir. Working language English (C1).

EXPERIENCE

Architect and BIM Consultant

Dec 2025 – present

Independent practice · Turin, Italy

- BIM-based documentation and modelling for existing buildings (ArchiCAD, IFC), on contract.
- Applied research on digital tools for the built environment, extending the master's work.

BIM Consultant and Designer

Jan 2023 – Dec 2025

Fabbrica di Architettura · Turin, Italy · contract, part-time

- Sole author of complete drawing sets on heritage and institutional projects: existing-condition models, plans, sections, construction details, renderings, presentation boards and municipal permit submissions.
- Castello di Ivrea – PNRR-funded restoration of a listed castle: a new 9 m access structure, built and in use, and 7,000 m² of reorganised public realm, with all permit files.
- LiDAR capture (mobile solid-state, iPad Pro) and scan-to-BIM modelling of listed fabric, including UNESCO World Heritage monuments in Turin.
- Banca Sella – full documentation set from concept design through construction.

Teaching Assistant

2022 – 2023

Politecnico di Torino · term appointments

- Design critiques and studio supervision: Architecture and Urban Design, Architectural Technology (B.Sc.); Urban Sociology (M.Sc.). Invited lecturer, March 2023 and March 2024.

Architect

Feb – Jul 2019

ETM Mimarlık · Izmir, Turkey

- Six-architect design team on the restoration of the Selçuk Yasar Museum and Culture Park, Aydıncı as-built surveys, technical details and 3D models of historic fabric.

Founder and Architect

May 2015 – Oct 2020

Gürtunca Mimarlık · Izmir, Turkey

- Founded and ran an independent practice: 22 commissioned projects (approx. 11,000 m²) and four open competitions (61,600 m²), from concept through application drawings, engineering coordination, site supervision and occupancy approvals.
- Measured survey, restitution and restoration of the Türklü Building, a 530 m² listed property in Izmir.

Architect

Apr 2014 – May 2015

Fargo Designs / Sinan Tantürk Mimarlık · Izmir, Turkey

- Site chief on the 14,000 m² Hilton Hotel, Izmir Gaziemir; fourteen projects in thirteen months, up to the 300,000 m² Issyk-Kul Lake urban design study, Kyrgyzstan.

Architect

Sep 2013 – Feb 2014

Rasyonel Mimarlık · Izmir, Turkey

- 3D modelling, rendering and presentation material; furniture and roof detailing.

EDUCATION

M.Sc. Architecture for Sustainable Design · Politecnico di Torino, Italy

2020 – 2025

- Thesis: "Place Relativity" – a mixed-methods study of public and private space inside virtual meetings. Supervisor: Prof. Daniela Ciaffi.

B.Arch. Architecture · Yasar University, Izmir, Turkey

2007 – 2014

COMPETITIONS AND AWARDS

FIRST PRIZE Guest House, Santa Cruz, California – international competition, 2018–19; completed

HONOUR AWARD “City as a Common Good”, Biella – 2021; exhibited at Cittadellarte – Fondazione Pistoletto

THIRD PRIZE Townhouse Remodel, Brooklyn, New York – international competition, 2018

FINALIST Ethiopian Satellite Preschools, Hiddi and Dillu – 2021

RESEARCH AND PUBLICATIONS

“Duyarak Tecrübe Edilen Kent” (The City Experienced Through the Senses) – Ege Mimarlık, July 2020

Participatory fieldwork – BeeOzanam Culture Centre, Turin, October 2024; 19-participant workshop, sponsored by LABSUS

Founder – PoliTOTSA, scholarship application support initiative, 2021 – present

SKILLS

BIM and information delivery	ArchiCAD (16 years), BIMcloud, IFC, openBIM, ISO 19650, model checking, common data environment
Survey and heritage	Mobile LiDAR, point-cloud and mesh processing, scan-to-BIM, HBIM, restoration, adaptive reuse
Energy and daylight	DesignBuilder, VELUX Daylight Visualizer, daylight analysis, energy retrofit, NZEB
Documentation and delivery	Full drawing sets, construction details, municipal permits, quantity take-off (Primus), PNRR public-works delivery
Design and visualisation	Lumion, V-Ray, Artlantis, SketchUp, AutoCAD; InDesign, Photoshop, Illustrator
Urban and computation	QGIS, participatory design; AI-assisted development of custom analysis tools, including a solar-position algorithm validated against JPL Horizons

LANGUAGES

English (C1) · Turkish (native) · Italian (elementary) · Tatar (elementary)

MEMBERSHIP

Registered Architect since 2014 – Chamber of Architects of Turkey (TMMOB), reg. no. 47543