

CAN KADİR SUCUOĞLU

Architect, M.Arch.

PROFESSIONAL OVERVIEW

I graduated from Yıldız Technical University and completed my M. Arch degree at Southern California Institute of Architecture (Sci-Arc). I specialized in digital design and manufacturing techniques while working at Jorge Pardo Sculpture in Los Angeles. I continued my career as a design coordinator at Warsaw's 2nd Metro Line in Poland and became a partner at İyiofis in 2011 which has provided design services to leading institutions and brands and exhibited work in various biennials and exhibitions. In 2016 I co-founded Bits 'n Bricks Research Group focusing on data-based design consultancy services exploring the intersection of emerging digital technologies, analytical methods and design. As a coder and an urban enthusiast I am interested in the relationship between digital content and physical space, geo ai and data-driven storytelling. I currently teach Advanced GIS courses and consult as a research analyst at Pratt Institute's Spatial Analytics and Visualization Initiative.

GENERAL INFO

Nationality Turkish and American
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EDUCATION

2005 - 2007 M.Arch., Southern California Institute of Architecture, LA/USA
2000 - 2005 B.Arch., Yıldız Technical University, Department of Architecture, İstanbul/TR

PROFESSIONAL EXPERIENCE

2018 - Present **Researcher and Analyst, SAVI, Pratt Institute, NYC/USA**
I work as a researcher and designer specializing in Geographical data in Pratt Institutes, Spatial Analytics and Visualization Initiative. I am currently working on mapping the non-profit stewardship groups in NYC, analyzing their relation to the disturbances in the urban environment and developing an analytic methodology to investigate archeological sites.

2016 - Present **Bits'n Bricks, Founding Partner, İstanbul/TR**
Bits'n Bricks focuses on bringing the power of data analytics and geography into design and administrative decision-making processes. BnB has provided analyses and content to central and local governmental offices.

2011 - 2018 **İyiofis, Partner and Architectural Designer, İstanbul/TR**
A collaboration between graphic and architectural designers, aiming to provide wholistic design services. İyiofis has worked with major companies around the world and has been widely published in international media regarding their innovative work in the field of architectural design and urban intervention.

- 2010-2011** **Proto Engineering, Architectural Design Coordinator, Warsaw/PL Branch**
 I have worked in the Warsaw/Poland branch of one of the biggest engineering companies of Turkey for the construction and design of the 2nd Metro Line of Warsaw. In this position I coordinated between the architectural designers, governmental offices and local experts. The project required the collaboration of 12 different disciplines and several presentations to government offices.
- 2007 - 2010** **Jorge Pardo Sculpture (JPS), Digital Design and Manufacturing Consultant, LA/USA**
 At JPS, I facilitated the design and CNC-manufacturing of complex design objects by creating custom software algorithms. During this time, I was involved in hands-on production processes working with large groups of colleagues and manufacturers. To this day I still provide digital manufacturing and design solutions to the company as an external consultant.
- 2007** **Tom Wiscombe Architecture (Emergent), Designer, LA / USA**
 I worked as a junior architectural designer. Tom Wiscombe Architecture is one of the most cutting-edge design firms in the world, merging engineering practices with architectural design.

TEACHING EXPERIENCE

- 2019** **Pratt Institute, Advanced GIS**
 XSAVI 805 is the final core class in the continuing education curriculum in
- 2012 - 2018** **İstanbul Bilgi University, 1st Year Basic Design Studio**
 The first-year students are introduced to the basic concepts of design. Within the scope of the studio, these concepts are reconsidered with a digital/ parametric take to prepare the students to the technological advancements and the ever-changing discipline of design.
- 2014** **İstanbul Bilgi University, Datascares, Extracting Data from Urban Environments**
 This elective course aims to introduce the students to geographical/urban data sources, surveying and analysis techniques to be able to extract knowledge from the complex urban environments and design with them.
- 2011 - 2012** **Yıldız Technical University, Computer Aided Design Dept., Graduate Level Studio**
 This course incorporated the utilization of emerging software technologies as well as various coding techniques applied to design and optimization problems in the graduate design studio.
- 2011 - Present** **Jury Memberships and Adjunct Tutorships**
 I've been invited as an adjunct tutor and jury member to design studios at undergraduate and graduate programs in Columbia University, İstanbul Technical University and Yıldız Technical University.

EXHIBITIONS & AWARDS

2018	Turkish Science Foundation, Technology and Innovation Support Program, Entrepreneurship and Research Grant.
2014	IDB Participant with “Micro-Urbanisms: Think Micro!,” sponsored by İzmir Chamber of Commerce
2016	Featured in Great Public Spaces by Project for Public Spaces
2016	The Guardian, Cities Lab, Cities Challenge, 2 nd Prize
2016	Turkish Architecture Yearbook
2014	Ideas City Festival, New York, İstanbul Sidewalk; sponsored by Turkish Ministry of Tourism and Culture
2015	International Antalya Design Biennial, Participant
2007	Sci-Arc, Best Thesis Award and Scholarship
2006	Archiprix Turkey 3. Prize

PRESS

İyiofis and Bits'nBricks has been published worldwide; the Guardian, the Atlantic, AD Italy and Financial Times are a few examples. For details please refer to <http://arch.iyiofis.com/press>.

SKILLS

GIS, Geographic Information Systems: Expert in QGIS, Expert in Esri ArcGIS.

2D - 3D Modelling and Drafting: Expert in Rhinoceros 3D modelling software, including visual coding interface Grasshopper and Rhinoscriptsyntax for Python Programming Language. Expert in AutoCAD.

Programming Languages: Proficient in Python, including major data analysis and visualization packages (Pandas, Numpy, Seaborn, GeoPandas), web-scraping and API usage. Basic knowledge of R.

Advanced Programming Skills: Proficient in Generative Evolutionary Algorithms Plug-ins Galapagos and Octopus, Experienced in Image Recognition APIs and Geocoding Algorithms. Intermediate knowledge of machine learning package Scikit-Learn in Python.

Adobe Packages: Expert in Photoshop, Illustrator and InDesign.

RECENT and CURRENT PROJECTS

Who takes care of NY?, A joint exhibition with USFS telling the story of stewards of NYC.
<https://queensmuseum.org/2019/03/who-takes-care-of-new-york>

Optimization for YAP PS1_Moma, for Pedro y Juana, Construction tolerance fitting using genetic algorithms for the winner proposal for the New York's MOMA PS1 Young Architect Program.

Urban Amenities and Housing Market, this research project has received funding from Turkish Science Foundation, and it is focusing on the urban amenities effect on housing prices.

Geometry Optimization of Portland Tram Stop, Creation and execution of custom Python codes for geometry optimization and design input.

Building Skin Performance Optimization of Çukurova Airport Using Genetic Algorithms, the building skin design optimization based on the summer and winter conditions and interior requirements done for the international architecture office Emre Arolat Architects.

Urban Policy Guide, An urban design and policy guide for Istanbul Metropolitan Municipality, specializing in the urban transformation areas targeted by the earthquake resilience efforts.

Kartal Design Guideline and Codes, The transformation of Kartal Industrial District has been designed to create a vibrant and resilient community in this new residential district. Project is in governmental review process.

Gallipoli Design Competition for War Graves, Site Analyses, Urban analyses including POI locations and social media content for Çanakkale Chair of Memorials Historic Areas.

LACMA Pre-Columbian Gallery, Pre-Columbian gallery has been designed and built with Jorge Pardo's vision consisting of 3000 unique pieces to create a curvilinear, flowing space.

Data Based Journalism Online Article Series for Hürriyet (Hurriyet constitutes %10 of all sold printed newspapers in Turkey).