

Efe GÖZEN

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Details

date of birth 23.10.1985
nationality Turkish

Education

2014- PhD. (candidate) in Architecture
Istanbul Technical University Architectural Design

2008-2011 MSc. in Architecture
TU Delft Hyperbody: Non-Standard and Interactive Architecture

2007-2011 MSc. in Architecture
Istanbul Technical University Architectural Design
Thesis: Mass-Customization of Architecture // Architecture in the Information Age

2003-2007 BSc. in Architecture
Istanbul Technical University

2003 High School
American Collegiate Institute Izmir, Turkey

Awards & Grants

2015-2016 ITU ARI Teknopark Incubator
Supported by Istanbul Technical University for incubation for the tech startup

2015_{mar-nov} ITU Çekirdek
Shortlisted by Istanbul Technical University for the tech entrepreneurial early stage seed program amongst 1200+ applicants

2015_{may} TGSD Grant
Grant awarded by the Ministry of Science, Industry and Technology of Turkey amongst 1900+ applicants for the establishment of a tech startup focusing on the applications of robotic fabrication in architecture and building industry, received through the research project titled *Robotic Fabrication Methods for Surface Production Optimization of Double-Curved Surfaces*.

2013_{june} Mention
Invited Competition by the Ministry of National Education for the design of an educational campus on 25 hectares of land and 100.000 m² of building in Elazığ, Turkey.

2013_{feb} Mention
Ideas competition by the Chamber of Architects in Ankara for re-purposing Mamak Military Penitentiary.

2012_{feb} Mention
Kartepe 30th Meridian National Architectural Ideas Competition for the design of a small scale public park and monument.

2007_{may} 1st Prize
Klinker National Student Design Competition for the most innovative use of the klinker brick material.

Practice

- 2015- **Co-Founder**
fabb
Start-up founded through a research project and tech-entrepreneurship grant based in Istanbul focusing on the applications of robotic fabrication methods in architecture, construction industry and creative industries. Solution provider for KUKA Turkey in creative industries.
- 2012-2013 **Founder**
flab
Ad-hoc office that focused on architectural competitions, architectural visualization and computational design consultancy based in Rotterdam.
- 2012 **Designer**
mecanoo architecten bv
Computational designer and architect for the XIQU theater competition in Hong Kong.
- 2007-2008 **Jr. Architect**
Han Tümertekin + Mimarlar
Architect for the summer settlements in Göcek and assisting architect for an international project in Bodrum, Turkey.
- 2006summer **Intern**
Emre Arolat Architects
Assisting architect for the Folkart housing project in Izmir, Turkey.
- 2006aug-sep **Intern**
NSMH
Supervision of the steel construction roof levels on site for Umur Basım Sanayi in Istanbul, Turkey.
- 2006june-july **Intern**
Han Tümertekin + Mimarlar
Preparation of presentation documents and detail drawings for various projects.

Exhibitions

- 2019 june **Tasarla Türet, Robotla Üret!**
Design / Develop, Build with Robot! an initiative launched by FABB and supported by YAPI-TurkeyBuild Fair and various architectural publishers in 2018, aims to introduce actors of the construction industry (largest industry of Turkey) with robotic fabrication technologies. Exhibition of robotic milling, carbon-fiber weaving, stacking, and hot-wire cutting applications of FABB and a live demonstration of robotic brick laying. Talks with the new generation of architects on the subject of robotic fabrication.
- 2018 oct **4th Istanbul Design Biennial**
Docendo Discimus Instrumantae (by teaching, we learn) a project of FABB that aims to redevelop the workshop to transcend its tempo-spatial boundaries in the decentralised age of online learning and the do-it-yourself movement. Project proposes a workshop in which an international network of contributors share their experiences on robotic fabrication processes through online instructionSets. instructionSets are an experimental protocol for sharing digital making methodologies and documenting deviations and interpretations. Over the course of the six weeks of the Biennial, six instructionSets developed by six teams (FABB, Greyshed, Robofaber, QUT, University of Sydney, Aalborg University) around the world are executed, shared, repeated duplicated and improved.
- 2015 dec **Speck**
Robotic choreography with audiovisual narrative for the Istanbul Innovation Week with NOHlab.
- 2015 aug **MASS_exhibition**
Final product of the workshop exhibited in Turkmall Sanat and Uniq Gallery in Maslak
- 2014 oct **2nd Istanbul Design Biennial**
Final prototypes of augmenting Galata, as well as a collaborative piece with Burcu Biçer Saner exhibited in Academics Program of the international 2nd Istanbul Design Biennial.
- 2014 june **8th National Computational Design in Architecture Symposium**
Final product of the Robotic Fabrication Workshop exhibited.

Academic

2018-cur.

Visiting Researcher

@Kadir Has University for developing interdisciplinary architectural research projects based on robotic fabrication, tutoring and overhauling three compulsory undergrad courses;

ARCH213 Digital Media and Modelling

Introductory applied course to familiarize students of architecture with digital tools for design and fabrication in a workflow.

ARCH214 Design Computation

Further the skills obtained in the preceding class, introduces computational design tools through computational thinking and examining material behaviour. Informative series of lectures on different aspects of computational design provide an insight for the students. Course is concluded with the design of a generative model and the fabrication of cardboard pavilions in full scale as a group work.

FAD122 Systems Thinking

Preparation of an applied course suited for a faculty of arts, design and architecture first year students (~175) from a variety of background (theater to architecture) to introduce thinking in/with systems. The course is comprised of four stations that focus on systems and how they behave in different scales and durations (weekly personal, small service area, temporary event/festival, neighborhood) in which students from different tracks are shuffled to form groups and work on a case for three weeks in each station.

2015-2018

Adjunct Faculty

@Ozyegin University as undergrad architecture design studio instructor with his own track;

ARCH102 Architectural Design Studio I - urb.ex

urb.ex (urban explorations) is comprised of two projects, the first project is an urban intervention in a public area in Karaköy - a commercial hub, whereas the latter is the design of an urban housing unit with a public space in Kadıköy, Istanbul.

ARCH201 Architectural Design Studio II - urbanStations / in_transit[ion]

urbanStations is comprised of two projects, first is a group work that aims to develop a series of small scale interventions in a problematic neighborhood and the individual project focuses on re-purposing abandoned small scale train stops of Istanbul. Three student groups have won awards (two equal first place, one mention) in a national student design competition with their public interventions. Preliminary project of in_transit[ion] is a group work focusing on transforming an urban void in a hyperconnected place of Istanbul, whereas the individual term project focuses on developing and designing a bus transit hub that integrates a novel understanding of public space geared towards different acts of waiting.

ARCH202 Architectural Design Studio III - xz-bit

Studio aims to explore new paradigms in exhibition design, where participants focus on developing a display strategy which includes a general curation of the exhibition and later develop the temporospatial design for the subject they wish to focus.

ARCH301 Architectural Design Studio IV - manufactured

Studio focuses on the definition of the space through production processes, in which the participants develop a programme for the ex-Pfizer factory located in central Istanbul and they are expected to interpret the notion of manufacturing based on the fabrication of physical commodities or the generation of information, and all of their possible hybrid states.

2016-2017

Adjunct Faculty

@MEF University as the tutor for two elective courses prepared specifically for the university;

ARCH434 Design Fabrication

Applied course on the utilization of digital fabrication tools for the design of 1:1 scale prototypes. Course is a blend of personal and group work, and gradually transitioning focus from planar cuts (laser cutter) to volumetric cuts (CNC router) and additive forming (3D Printing / casting) in three sections.

ARCH424 augmenting Locales

Applied course on creative coding and prototyping reactive urban installations at different scales. Basics on electronics (such as breadboarding, sensors, actuators, micro-processors) as well as material prototyping with digital fabrication tools are covered.

2014spring

Adjunct Faculty

@Izmir University of Economics

ARCH498 Graduation Project - Urban Realm

Final project for undergrad architecture students with the topic of a Design Museum in Izmir, Turkey. Project of an exchange student from this graduation unit has won a national Archiprix award in Poland.

Workshop

- 2018_{aug} **telkâri**
Organizing and tutoring of three-day workshop on robotic rod bending with custom made rod-bender in the scope of 4th Istanbul Design Biennial and FABB's project *Docendo Discimus Instrumantae*.
- 2017_{nov} **roboDraw**
Organizing and tutoring a two-day workshop in MEF University on parametric robotic programming through portrait drawing utilizing a calligraphy felt pen.
- 2017_{oct}
2017_{apr} **Informatics Based Entrepreneurship for Architects**
Two-day certificate programme on informatics based entrepreneurship for architects, prepared for Ozyegin University Life Long Education Academy.
- 2016_{june} **Aethereal Space**
Organizing and tutoring weekend long robotic light painting workshop in the scope of 10th National Computational Design in Architecture Symposium.
- 2016_{june} **AA Visiting School Istanbul**
Part of the organization for the ten-day international workshop focusing on robotic hot-wire cutting in cooperation with Architectural Association and Bilgi University. Tutoring and leading for the robotic fabrication part of the workshop.
- 2016_{may} **Robotic Painting Workshop**
Organizing and tutoring one-day international workshop in the scope of DCA-E Conference in Ozyegin University.
- 2015_{nov} **Introduction to Parametric Design**
Double weekend of lectures and Grasshopper workshops for TOBB University Department of Architecture.
- 2015_{july} **MASS v1.0 Robots & Cyborgs in Architecture**
Organizing and tutoring ten-day international workshop focusing on robotic milling and virtual environments utilizing customized Oculus VR sets with leap motion sensors in architecture in coordination with MEF University.
- 2015_{april} **Kod'la Oyna**
Weekend workshops for high-schoolers focusing on creative coding through the use of adaptable predefined modules for MEF University.
- 2014_{sept} **augmenting Galata**
Organizing and tutoring three-day workshop focusing on creative coding and prototyping urban installations within the academic program scope of 2nd Istanbul Design Biennial in SALT Galata.
- 2014_{june} **Robotic Fabrication Workshop**
Organizing and tutoring two-day workshop introducing the attendees to generative modelling and robotic milling in Izmir University of Economics with KUKA Turkey sponsorship.
- 2009_{april} **Introduction to Parametric Design**
Organizing and tutoring three days of lectures and Grasshopper workshops for ITU Department of Interior Architecture.

Publications

- 2019 sept **A Framework for a Five-Axis Stylus for Design Fabrication**
eCAADe+SigraDi 2019 paper on the development of a five-axis stylus that end-to-end integrates designer gestures with robotic fabrication, proposes a novel yet familiar Human-Machine Interaction
- 2018 june **Goygoy**
essay on bullshit in ("parametric") architecture for Arredamento Mimarlık Magazine
- 2017-2018 **fabbrication**
monthly column published in XXI Magazine in Turkish (and English in web version) on familiarizing a large audience to digital fabrication and computational design and reflecting on its fundamentals, co-authored with Burcu Biçer Saner. 16 columns of ~1500 words, list of articles are as follows:
- Docendo Discimus Instrumantae 2018july/aug, towards Cybernetic Architecture // Sibernetik Mimarlık'a Doğru 2018june, designFabrication, fabricationDesign, designEducation // tasarımÜretimi, üretimTasarımı, tasarımEğitimi 2018may, Poisoning Perceptions // Zihinlere Zehir Zerk 2018apr, Pseudo Methods // Sözde Söylemler 2018mar, Tool Porn // Ille de Robot Olsun 2018feb, Architecture Ablaze // Mimarlık Alev Alev 2017dec/jan, harder, better, faster, stronger 2017nov, to Fabricate or not to Fabricate 2017oct, analogRead () digitalWrite () 2017sep, digitalRead () analogWrite () 2017july/aug, How to Train Your Robot? // Robotunu Nasıl Eğitirsin? 2017june, Does "Orange" Dream of Electric Brick? // "Turuncu" Elektrikli Tuğla Düşler mi? 2017may, void Main () 2017apr, private Class Architect { } 2017mar, helloWorld 2017feb
- 2009 **theoria_poesis_praxis, contemporary_modern**
two award winning essays published in the compilation book "Mimarlıkta Eleştirel Okumalar" published by The Architects' Association 1927

Lectures & Talks

- 2019mar **Towards a Cyberphysical Architecture: Robotic Fabrication**
speaker in 3. Contemporary Architecture and Art Symposium in memory of Prof. Dr. Bulent Ozer
- 2018may **Creative Robotics**
2017may lecture on creative robotics at &NOW(2018) and Gelecekhane Digital 2.0 event (2017)
- 2018mar **Design Transformation**
speaker in the Sectoral Orienteering panel @Ozyegin University
- 2017nov **Architecture and Digital Fabrication**
speaker in the panel organized by Turkish Association of Architects in Private Practice @Salt Galata
- 2017mar **roboticFabrication**
lecture on robotic fabrication @Ozyegin University
- 2015apr **Non-Standard & Interactive**
back to back lectures on non-standard and interactive architecture @Ozyegin University
- 2015mar **If; Else; Else If;**
2015nov lecture on computational architecture @IYTE and later @TOBB University
- 2012apr **Introduction to Non-Standard**
lecture on non-standard architecture @Kocaeli University

Et Cetera

- skills certified KUKA robot operator
working with and building various CAD/CAM systems
metal and wood workshop experience
designing and building interactive systems
- language Turkish *native*, English *fluent*
- interests tinkering, DIY, LEGO, two-wheel methods of transportation, jack russell terriers