

Kiarash Kiany

Architectural Designer · Specializing in Computational Design · GIS Specialist and Analyst

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I am an Architectural designer with a five-year professional degree and seven years of experience, specializing in computational design, parametric workflows, and design automation. I am a natural problem-solver who thrives at the intersection of spatial thinking and technology — bringing rigorous architectural foundations and a genuine love for building tools, automating processes, and designing spaces that work.

SKILLS

CAD / 3D

- Rhinoceros
- Revit
- AutoCAD
- Blender
- Lumion

- V-Ray
- Enscape
- Keyshot

Scripting & Automation

- Grasshopper
- GHPython
- Python
- C#
- RhinoScript

- ArcPy
- ArcGIS API for Python
- Dynamo

Architectural Practice

- Architectural Design
- Spatial Design
- Interior Design
- 3D Visualization
- Construction Documentation
- Fabrication Detailing
- Environmental Analysis
- Agent-Based Modeling

GIS, Data & Visualization

- ArcGIS Pro
- ArcGIS Online
- ArcGIS Dashboards
- QGIS
- Tableau

- Adobe Photoshop
- Adobe InDesign
- Adobe Premiere Pro

EDUCATION

Doctor of Philosophy, Environmental Design · University of Calgary, SAPL, Calgary, AB
2026 – Present

Master of Design Research · University of Calgary, SAPL, Calgary, AB
Winter 2024, Fall 2025

- Thesis: Integrating fiscal-spatial analysis in data-driven land use evaluation

Built an ArcPy geospatial platform to assess city performance through fiscal and spatial metrics, informing evidence-based land use decisions

Bachelor of Architecture Engineering · 5-year professional degree (CACB-recognized)

WTIAU, Tehran, Iran
2015 – 2020

EXPERIENCE

Computational Designer · Parametric House, Tehran, Iran

Sep 2018 – Apr 2023

- Built and documented reusable Grasshopper and Rhino3D parametric workflows and automation scripts for a global design education platform
- Developed tools spanning architectural form finding, fabrication automation, and environmental analysis — used by thousands of designers worldwide

Freelance Computational Designer · Fiverr

Nov 2022 – Feb 2024

- Delivered parametric modeling, 3D visualization, and computational design services to international clients across architecture and product design

- Scoped, documented, and communicated technical workflows clearly across remote, cross-disciplinary projects

Interior Designer · Fasham Villa Redesign, Tehran, Iran

Feb 2021 – Jan 2022

- Led full interior redesign of a residential villa – from client brief through to construction documentation and built outcome
- Produced layout plans, 3D visualizations, and material specifications using Rhino, Grasshopper, and Lumion

ACADEMIC EXPERIENCE

Sessional Studio Instructor · University of Calgary, SAPL

Jan 2025 – Present

- Full sessional instructor for DSGN 263 and DSGN 363 – 200+ students across computational design, Grasshopper, GHPython, Python, and GIS
- DSGN 363 covers advanced topics including ArcGIS Pro, ArcGIS API for Python, connectionist AI, and dimensionality reduction
- Designed all course materials and workflow documentation from scratch each term

Sessional Studio Instructor · University of Calgary, SAPL

Jan 2024 – Present

- Studio instructor for DSGN 201 and DSGN 203 (Design Thinking and City Studio) – spatial and computational design for undergraduate cohorts

Graduate Research Assistant · University of Calgary, SAPL – Center for Civilization + DESTECTIC

Jan 2024 – Present

- Led GIS and fiscal-spatial analysis for the City of Airdrie using ArcGIS Pro and ArcPy; delivered spatial data outputs and reporting directly to municipal stakeholders
- Contributing to NFRF-funded research on serious game design for spatial cognition and design education

AWARDS

- Finalist, Baglietto Talent Award, YACademy, Bologna, Italy 2025
- First Place, Plan-B Competition, Houston, Texas, USA 2021

CERTIFICATES

- Python Basics, Coursera, University of Michigan 2024
- Python Data Structures, Coursera, University of Michigan 2024
- Programming for Everybody, Coursera, University of Michigan 2024
- Python for Data Science, AI & Development, Coursera, IBM 2024