

KIARASH TAHERI

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Systems Designer and Researcher

My work connects architectural design, computation and fabrication. I build computational design environments and multimodal research platforms, alongside architectural projects and physical prototypes, linking design exploration with experimentation and construction.

SKILLS

Computation & AI	Python · software design · generative design · optimisation · LLM workflows
Design and BIM	Sketching · Rhino · Grasshopper · Revit · Dynamo
Robotics	PyBullet · kinematics · motion planning
Fabrication	CNC · laser cutting · FDM printing · assembly
Research	EEG · VR · LSL · study design · signal review
Languages	Persian: native · English: working proficiency

EDUCATION

Iran University of Science and Technology Bachelor's degree in Architecture Thesis: Lunar research station · Supervisor: Dr. Morteza Rahbar Allameh Helli 1, Tehran · Secondary education · NODET / SAMPAD	Expected 2027
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RESEARCH AND PROJECT EXPERIENCE

Multimodal research platform and EEG–VR studies Research assistant to Dr. Bushra Abbasi · IUST - Develop a multimodal research platform connecting study design, experiment execution, recording, signal review, analysis and evidence provenance. - Implement Python/LSL EEG streaming; conduct ongoing EEG–VR research covering setup, 64-channel recording, signal review and analysis.	2026–present
Residence Hell — Generative architectural design software System author and designer · Independent academic project - Developed an editable environment where people, tool-using AI and algorithms work on a shared design state, with housing as its initial application. - Integrated generation, evaluation, direct editing and branching to support iterative exploration of alternative design states. - Defined the system architecture, spatial rules and evaluation criteria, and directed AI-assisted implementation.	2026
Nefar and Telar — Robotic assembly research Vernacular timber fieldwork · Computational assembly study - Surveyed timber structures in Alam Kola, documenting their construction through field photographs, drawings and structural models. - Developed Python-based robotic assembly software and simulation from documented members, joints and assembly dependencies.	2025
Wood–Thread Pavilion Designer and parametric modeller · Harakat Festival, IUST Designed and parametrically modelled a full-scale timber-and-thread pavilion; prepared CNC files and collaborated on fabrication and on-site assembly.	May 2025

PROFESSIONAL EXPERIENCE

Municipal museum

2026

Design collaboration with Dr. Abbaszadeh and Dr. Tafti · Tehran

- Developed architectural concepts and digital models, carried out site analysis, and produced 3D-printed study models for a commissioned municipal museum.

Tehran Experience Studio

Aug-Sep 2024

Construction-site intern

- Documented construction progress and maintained site checklists, relating architectural drawings to on-site execution.

Hermipay Studio

Jul-Sep 2023

Architectural design intern

- Produced digital models and project documentation; surveyed existing conditions in Tehran's historic Naseri urban fabric.

Independent 3D-printing services

- Prepared models, sliced files and produced FDM prints for external projects.

ADDITIONAL DESIGN AND COMPUTATIONAL WORK

- **Architectural design:** studio projects, physical prototypes and structural exploration with Karamba.
- **Building data:** IFC/IfcOpenShell and Neo4j workflows; pathfinding studies.
- **AI workflows:** LangChain/LangGraph and RAG, alongside exploratory work in local LLM fine-tuning and self-play.
- **Robotics:** independent exploration with ROS 2 and Isaac Lab.

TEACHING

AI in architecture workshops

2025-2026

- Taught university students practical AI applications in architectural visualisation and design workflows.

Concept-to-form architecture workshops

2026

- Taught concept development and architectural form to students in grades 7-8; prepared exercises translating words, feelings and music into spatial ideas and miniature-brick models.

VOLUNTARY WORK AND ACADEMIC ENGAGEMENT

Architecture Scientific Association, IUST

- Co-hosted and moderated an English-language conversation with Juhani Pallasmaa at IUST (June 2026).
- Contributed to academic events and competitions through ideation, planning, logistics and spatial setup.
- Helped develop the brief and programme for NaRavayat, a student design competition at IUST (September 2026).
- Led planning and logistics for an educational architecture trip to Shiraz with a small organizing team.

Environmental volunteering

- Participated in environmental cleanup activities.

PERSONAL INTERESTS

I enjoy Persian poetry, sketching, digital drawing, playing guitar, origami and hands-on crafts, as well as travel and hiking.