ELIF KEVE

CONTACT INFORMATION

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ACADEMIA EDU: https://independent.academia.edu/ElifKeve
ORC-ID: 0009-0005-5546-1693 (Open Researcher and Contributor ID)
BEHANCE PORTFOLIO: https://www.behance.net/elifkeve1

Architect and Sustainable Building Engineer with 9-10 years multidisciplinary experience in BIM, digital twins, computational design, and 3D modelling. Experienced in scan-to-BIM workflows, laser scanning, photogrammetry, point-cloud processing, and parametric modelling using Revit, Rhino/Grasshopper, and other digital design platforms. Strong engineering background in structural systems, infrastructure, and construction technologies through architecture and civil engineering education. Interested in digital simulation, procedural modelling, computer vision, and AI-assisted methods for infrastructure inspection and sustainable engineering research.

EMPLOYMENT

2025 – present / ***BIM Specialist Architect and Sustainable Building Engineer***
Calandrella Architecture and Engineering & Association / Rieti, Italy

- Developed BIM and digital-twin workflows integrating laser scanning, point clouds and survey data.
- Processed large-scale point clouds using ReCap, CloudCompare, CloudWorx and Agisoft Metashape.
- Generated accurate 3D models from real-world survey data, concluding BIM cost and time efficiency.
- Integrated LCA and sustainability analyses into BIM environments.
- Preparing architectural and engineering formal documents for both contests and municipality bases.

2022 – 2024 / ***Architect Engineer & BIM Modeller,*** **Studio Giamogante Engineering** / Rieti, Italy

- Developed multidisciplinary BIM proposals for public-sector projects and design competitions.
- Produced accurate 3D models using Revit, SketchUp, and 3ds Max.
- Created technical drawings and engineering documentation in AutoCAD and Revit.
- Generated architectural visualizations using V-Ray, Twinmotion, and Lumion.
- Collaborated with structural engineers using Revit Structure, SAP2000, Tekla, and ProSAP.

2021 – 2022 / ***R&D Space Architect and Designer***, **ThinkOrbital Company** / Colorado, USA

- Developed parametric 3D models using Rhino, Grasshopper, and V-Ray for research-driven design projects.
- Performed environmental analysis and computational design.
- Contributed to scientific research, publications, and technical proposal development.
- Designed digital concepts for advanced engineering projects, including space habitats and research facilities.
- Collaborated with international multidisciplinary teams using cloud-based digital collaboration platforms.

2017 - 2021 / ***Architect and Site Manager,*** **Rönesans Holding** / Istanbul, Türkiye

- Coordinated architectural design, construction activities, and multidisciplinary project teams.
- Managed site progress, quality control, material procurement, and cost monitoring.
- Prepared technical documentation and coordinated with contractors and consultants.
- Adapted efficiently to evolving project requirements, ensuring timely project delivery.
- Built a strong foundation in construction management through office and on-site experience.

COMPUTER SKILLS

Advanced Level: Autocad & BricsCAD, Revit BIM & Navisworks, SketchUp, Lumion & Twinmotion
Autodesk Recap, Cloud Compare, Agisoft Metashape, CloudWorx, Photoshop & PremierePro
Intermediate Level: Acca softwares, OpenLCA & BIM Design App, 3Ds Max, Rhinoceros, Grasshopper, QGIS
Basic Level: SAP2000, STAADPro, RAM Structure, Rekla BIM, ProSAP, Basic Phyton

LANGUAGE SKILLS

TURKISH: Native KURDISH: Native ITALIAN: C1
ENGLISH: C2 KOREAN: B2 GERMANY & ARABIC: A2

EDUCATION

2026-2028 **Doctor of Philosophy (Ph.D.)** – Engineering**, Sapienza University of Rome,** Italy|Collabo.: Acea - Areti
Program: Engineering and Applied Science for Energy and Industry | Advisor: Prof. Luigi Martirani
Research: Optimizing Energy Efficiency & Flexible Performance of Buildings and Energy Communities

2023-2024 **Master's of Engineering (M.Eng.)** – College of Engineering, **Temple University**, Philadelphia, USA
Research: *Civil Eng. Materials at Soil Mech. Lab.*|Advisors: Prof.Dr. Sanghun Kim / Prof. Felix Udoeyo

2021-2023 **Master's of Science (M.Sc.)** in Env. & Sustainable Building Engineering, **Sapienza University of Rome**
Thesis: *Developing Adaptable Design for Interplanetary Transportations' Habitat Modules, Considering Changing Conditions and Long-Term Sustainability* | Advisors: Chiara Belingardi / Valentina Summini

2013-2018 **Bachelor of Architecture (B.Arch.)** in Architecture, **Gaziantep University**, Gaziantep, Türkiye
4 Internships: have been completed | Advisors: Prof. Dr. Ömer Paydak and Prof. Dr. Feyza Kuyucu
2 Office Internship in Türkiye, 1 Internship in Construction Site, 1 Erasmus Internship in Bergamo, Italy

MEMBERSHIPS

UK – EU **RIBA** (Royal Institute of British Architecture) Member **: 20061320**
TR **UIA** (International Union of Architects) Member **: 61458**
US **AIA** (The American Institute of Architects) Member **: 40862518**
ASLA (American Society of Landscape Architects) **: 2003328**
ORC-ID (Open Researcher and Contributor ID) **: 0009-0005-5546-1693**
ARC – **AIAA** (American Institute of Aeronautics & Astronautics) Member **: 1822784**
MENTOR: WBiM (Woman in BIM), ChalkTalk, AstroCapsule, Space Smurfs, Hex Star Universe
AMBASSADOR: London Building Expo, Explore Mars

SCHOLARSHIPS, AWARDS AND CONTESTS

2026 Jan. – 2029 Dec……Areti – Acea **Scholarship Award** for Ph.D. Level
2023 Agu. – 2024 Feb…..Bilateral Program and Global Program **Scholarship Award** for Visiting Temple University
2022 25 April - 4 May……**2nd Award** Prize by International Space University (ISU) & Swiss Institute of Disruptive Innov.
Title: Interplanetary Human Transportation System, Developing R-Evolution Project, **Contest**
2022 25 April - 4 May……ISU full **Scholarship Award** for Visiting ISU International Space University
2021 Sept.– 2023 July…..Laziodisco **Scholarship Award**, Sapienza University of Rome for Master's Degree Program
2020 29-31 May……**Honor** by NASA Space Apps Challenges, 48h **Hackathon**, Title: Space, Art and Design
2017 Sept……**1st Award** Prize by Archos Architecture srl and ArtApp Design Companies, Redesigning Borbona
2017 June- Sept……..Volunteering Internship **Scholarship Award** to visit Archos Company in Bergamo, Italy
2016 Sept. 2017, Feb……Mevlana Program **Scholarship Award** for visiting Architecture and Construction University, Baku
2013 Sept. 2014, June….Farabi Program **Scholarship Award** for visiting Bahcesehir University in Istanbul Türkiye

RESEARCH INTERESTS & PUBLICATION

- Real World Challenges: Human-Centred and Sustainable Design Strategies for Rebuilding Processes in Post-Disaster Living Environments Enhancing Safety and Wellbeing: Integrating BIM, Smart Materials, and Resilience Frameworks
- Exploring the Potential of New Materials or Combined Materials for Advancing Low-Carbon, Zero-Waste, Sustainability Through Design and Structural Innovation
- Emotion-Aware Environment: Exploring Potential in Designing Spaces for Mental Well-Being and Human-Centered Comfort in Spaces in Case of Healthy Air, Thermal Comfort, Emotional Design in Color and Form

✓ **BOOK (Research):** Homes Beyond the Earth; A Guide to Adaptive Outer Space Habitats / **ISBN:** 979-824-24643-3-9

✓ **BOOK (Fiction):** ***Book 1***: The Last Breat of the Death / ***Book 2:*** The first Breath of the Life / **ISBN:** 978-605-73050-0-8

✓ **THESIS** (Published at ***Academia.edu*** and ***ResearchGate***): *Developing Adaptable Design for Interplanetary Transportations' Habitat Modules, Considering Changing Conditions and Long-Term Sustainability*

✓ **CHAPTER** (Published at **Academia.edu** and ***ResearchGate***): *Architecting the Final Frontiers of the Most Extreme Environments; Development and Research in Orbital, Lunar and Martian Environment from Perspective of Outer Space Architecture*

✓ **CHAPTER** (Published at **Academia.edu** and ***ResearchGate***): *Exploring Frontiers of Outer Space Architecture; Interplanetary Human Transportation Systems and Habitation Module - **R-Evolution Project***

REFERENCES *(Their emails can be provided if required)*

Thesis Supervisors: Prof. Dr. **Chiara Belingardi** | Prof. Dr. **Valentina Summini** | UCL-Prof. Dr. **Mikela Chatzimichailidou**
Employers: Eng. **Mauro Calandrella** | Arch. **Luigi Giamogante** | Mentor: **Xavier De Castelier** (Hassel Studio)