

PARISA GHAFARI

BIM / Revit Technician | Technical Engineer | Digital Construction & Automation

MSc BIM & Digital Built Environment · MSc Project and Construction Management

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Portfolio | [LinkedIn](#)

PROFESSIONAL SUMMARY

Technical Engineer and BIM/Revit specialist with six years' combined experience in architectural design, BIM modelling and digital construction across the UK, UAE and Iran. Strong hands-on background in Revit, AutoCAD and Rhino, progressed from architectural design and BIM production into UK-based technical engineering, where current work focuses on Dynamo and Python-based automation, rule-based model checking and CAD-to-BIM workflow development. Combines a genuine understanding of architectural design intent with the technical ability to build, automate and validate BIM information — bridging design and digital delivery rather than operating purely as either an architect or a software specialist.

KEY SKILLS

- Revit BIM Modelling & Documentation
- AutoCAD & Technical Drawing Production
- Rhino 3D Modelling
- Architectural Design Development
- Dynamo & Python-Based BIM Automation
- Rule-Based BIM Model Quality Checking
- CAD-to-BIM Data Mapping
- Early-Stage Structural & MEP Coordination

PROFESSIONAL EXPERIENCE

Technical Engineer | *ACS Stainless Steel Fixings Ltd, Leeds, UK*

Apr 2026 – Present

- Developed and validated a reusable Excel-based workflow converting Bluebeam take-off and markup data into structured project schedules, quantity summaries and system/reference information, replacing a repetitive manual data-processing step; outputs were cross-checked against ACS's existing CAD/plugin-generated quantities to confirm consistency.
- Developed and iteratively tested a Revit/Dynamo/Python prototype for automated brickwork modelling across three major iterations, successfully generating individual brick elements and applying masonry rules for walls, openings, brick courses, soldier courses and external corners; produced IFC exports for technical review and identified further development needs including internal corner conditions and multi-wall performance.
- Extended the brickwork logic into rule-based constructability checks — covering opening dimensions, sill heights, corner conditions and brick/module compatibility — with visual pass/fail feedback in Revit to support earlier identification of non-standard or constructability-sensitive conditions.
- Built Dynamo workflows to automate Revit model setup from linked CAD information, generating levels and corresponding floor plans with parameterised naming and floor-height logic, reducing repetitive manual model-setup work.
- Investigated and developed the data-mapping approach for transferring structured ACS AutoCAD block, layer and attribute information into corresponding Revit families and parameters, establishing the technical basis for a future CAD-to-BIM automation workflow.

Architectural Designer | BIM Technician | *ZAS Group, Dubai, UAE*

2022 – 2025

- Developed architectural models and drawing packages as part of the project design team on large-scale residential and mixed-use schemes, progressing design intent from concept through to Final Concept Design.
- Modelled in Revit and Rhino and produced plans, sections and elevations in Revit and AutoCAD, using 3D studies to test design options and maintain consistency between models and drawings.

- Supported early multidisciplinary coordination by integrating Structural and MEP information into the architectural model and identifying spatial issues during Final Concept Design.
- Took part in design reviews and prepared presentation material and documentation, working within NFPA fire-safety and DDA accessibility considerations to keep design packages coordinated and clear.

Architectural Designer | BIM Technician
| *Barsian Shar Consulting Engineers, Tehran, Iran*
2020 – 2021

- Developed architectural concepts for residential, office and public projects through successive 2D drawings and 3D studies.
- Modelled in Revit and Rhino and produced plans, elevations, sections and supporting documentation in Revit and AutoCAD to support design development, internal review and communication of architectural proposals.
- Worked to senior architects' feedback and coordinated architectural information with structural and MEP input where needed, keeping design intent, models and drawings consistent through each revision.

Architectural Designer | BIM Technician
| *ZAS Group, Dubai, UAE*
2018 – 2020

- Supported early-stage concept and design development through extensive 2D and 3D modelling on residential and mixed-use projects.
- Developed architectural concepts into 3D Revit and Rhino models and corresponding drawing outputs, providing the design team with a clear digital basis for reviewing and progressing proposals.
- Prepared design studies and presentation material and worked alongside senior designers to test alternatives and apply feedback, building a strong professional foundation in Revit, AutoCAD and Rhino.

EDUCATION

MSc BIM & Digital Built Environment University of Salford, Manchester, UK	2025 – 2026
MSc Project and Construction Management University of Tehran, Iran	2022 – 2025
B.Sc. Architectural Engineering Islamic Azad University, Tehran, Iran	2014 – 2018

SELECTED ACADEMIC & DIGITAL PROJECT

MSc Dissertation – Dynamo-Based BIM Model Quality Checking in Revit: built and evaluated four rule-based Dynamo workflows to check sheet, room, view and door information in Revit. In a controlled case study, the workflows caught all 44 verified issues against 86.4% recall for manual checking, and cut total repeat-use checking time from 41 min 20 sec to 5 min 51 sec — 85.8% faster — while confirming that ambiguous or context-dependent cases still need a human reviewer.

ADDITIONAL INFORMATION

Software: Revit, AutoCAD, Dynamo, Rhino, Bluebeam Revu, Excel, Navisworks, Enscape, Lumion, Photoshop, Illustrator, InDesign, Microsoft Project, Office Suite, DesignBuilder (academic use)

Languages: English, Persian (Native)

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