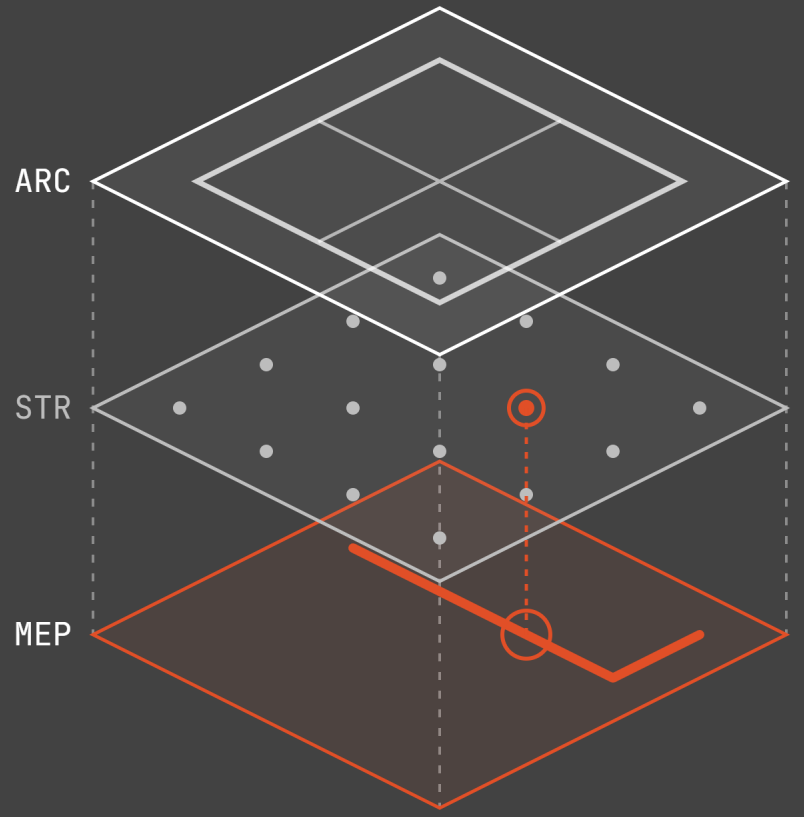
BIM PORTFOLIO

Hanieh Yari

I help owners, designers and contractors get BIM information that works, from the first requirement to handover.



Federated model, exploded view

BIM Expert | ISO 19650 | openBIM | Coordination

Calgary, Alberta | info@cruxl.com | LinkedIn

PROFILE

Upstream thinking, hands-on delivery

Architect by training, BIM specialist by practice. Most problems that show up in coordination or at handover start upstream, in requirements, data structure and templates. I work on both ends: I set up the information, and I fix the models.

EXPERIENCE

Cruxl Building & Tech Inc., Co-founder, 2025-present

Auxalia GmbH, BIM Consultant, 2022-present

BUERO 51, Architect (BIM), 2019-2021

Schaub und Partner, Architect, 2018-2019

Rams Asa Co., Head of Design, 2012-2013

M.Sc. Architecture, University of Kassel

10+

years in AEC, 7+ of them in BIM, across Germany and Canada

300+

AEC professionals trained in Revit, ACC, BIM 360 and openBIM

50%+

fewer IFC errors across client workflows

30%+

fewer model errors before handover to consultants

WAYS TO WORK WITH ME

Where I can help your team

01

BIM health check

A review of your models, templates and workflows, with a clear list of what to fix first.

02

BIM set-up and standards

EIR, BEP, templates, naming and CDE structure, aligned with ISO 19650.

03

Coordination support

Running or supporting coordination cycles, clash management and issue tracking.

04

openBIM and IFC fixes

IFC mapping, PropertySets and IDS checks, so data survives every exchange.

05

Handover and asset data

AIR, COBie and asset data that still works in operations and digital twins.

06

Training and coaching

Tailored training in Revit, ACC, openBIM and ISO 19650, in English or German.

Engagements range from a short review to ongoing support, on site in Calgary or remote.

AREAS OF EXPERTISE

Eight areas, one goal: information that works

BIM strategy and implementation

Processes, roles and standards for teams adopting BIM

SHEETS 08, 12, 14

Information management

ISO 19650: EIR, BEP, LOIN, CDE and exchanges

SHEETS 10, 11

openBIM and interoperability

IFC, IDS, BCF, bSDD, MVDs and PropertySets

SHEETS 08, 11

BIM coordination

Federated models, clash detection and issue tracking

SHEETS 06, 07

Model quality and data

Templates, audits, model health and parameter strategy

SHEETS 06, 09

Handover, GIS and digital twins

COBie, asset information and BIM with GIS

SHEET 11

Training and enablement

300+ trained, a BIM Manager curriculum, eTraining

SHEET 13

Standards and communication

Canadian BIM Manual, openBIM Awards jury

SHEET 12

PROJECT EXPERIENCE | GERMANY, 2018-2021

Five projects across four building types

BUERO 51, HAMBURG | 2019-2021

Ohe-Höfe

Residential quarter, 3 buildings, Hannover

- Revit project standard
- Federated coordination
- LOD 300-350 models
- Construction documents

Güntherstraße

Residential building, Hamburg

- Construction document models
- Drawings to DIN and HOAI
- Worksharing structure optimized

Bendestorf School

New build school facility

- BIM-based feasibility study
- Volume model for option studies
- Area metrics to school guidelines

SCHAUB UND PARTNER | 2018-2019

Lohse Park Holiday Inn

Hotel, HafenCity, Hamburg

- LOD 300 construction model
- Permit set incl. fire protection
- ARC, MEP and STR interfaces

Neue Burg 1

8-storey office, Hamburg

- LOD 300 construction model
- Permit set and construction documents
- ARC, MEP and STR interfaces

HOAI phases 4 and 5 (Genehmigungs- and Ausführungsplanung) correspond to permit and construction documents in Canadian practice.

CASE STUDY 01 | OHE-HÖFE, BUERO 51 | 2019-2021

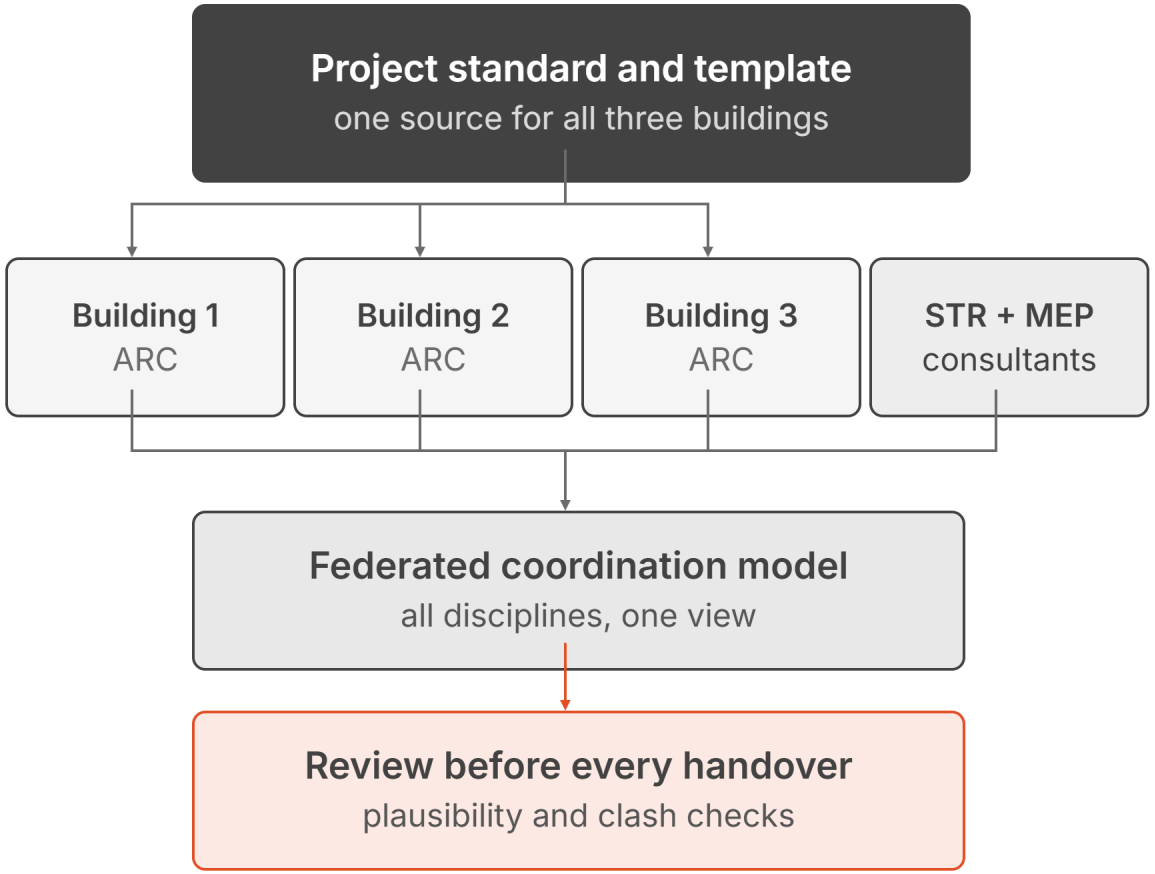
One Revit standard for three buildings

Three multi-family buildings in Hannover. Three models had to behave like one.

WHAT I DID

- Built the Revit project standard and template: view templates, filters, parameters, worksets, families and libraries
- Set up a federated coordination workflow with the engineering consultants
- Ran a model-centric review before each handover, with plausibility and clash checks
- Delivered LOD 300-350 models and construction documents

30%+ fewer model errors before handover to consultants



METHOD | MULTIDISCIPLINARY COORDINATION

How I run a coordination cycle

One cycle per model drop, run in Navisworks, ACC or BIMcollab Zoom, so every issue can be traced from clash to close-out.

01
Check in
QA gate on each incoming model: origin, units, file health

→

02
Federate
Combine ARC, STR and MEP models into one view

→

03
Test
Clash tests per discipline pair, with agreed tolerances

→

04
Triage
Group results, drop false hits, set priorities

→

05
Assign
Issues with owner, viewpoint and due date, in BCF or ACC

→

06
Close out
Review in the meeting, verify in the next drop, log the fix

WHAT EACH CYCLE PRODUCES

- Coordination report
- Issue log with owners and dates
- Resolution record for compliance

CASE STUDY 02 | AUXALIA GMBH, AUTODESK TECHNICAL PARTNER | 2022-PRESENT

Fixing IFC errors upstream, in the template

WHERE I FIX IT

WHERE ERRORS USUALLY SHOW UP



THE SITUATION

Clients came with IFC exports that lost data or failed checks, and ACC workflows that blocked coordination.

WHAT I DID

- Traced IFC mapping failures back to parameter structure and template set-up
- Restructured parameters and PropertySet mapping in client templates
- Resolved ACC workflow failures that other consultants had flagged as blockers
- Helped clients establish project BIM standards across all disciplines

50%+

fewer IFC errors across client workflows

by fixing template and parameter strategy, not the export

QUALITY ASSURANCE AND AUTOMATION

Model health before every exchange

File health

- File size and performance
- Warnings reviewed, reduced
- Unused content purged
- Links loaded and pinned

Set-up

- Shared coordinates, origin
- Worksets and view templates
- Naming as the BEP defines
- Levels and grids consistent

Geometry

- In-place and imported CAD
- Duplicates and overlaps
- Room bounding and areas
- Elements on correct levels

Data

- Required parameters filled
- Classification applied
- IFC mapping valid
- Consistent across models

AUTOMATION

Dynamo and Python

I use Dynamo and Python to turn repeat checks and clean-up into routines the whole team can run.

EXAMPLE

Finding and removing unused project parameters across a model

ALSO IN MY KIT

Solibri rule checks, ParameterTool, Revit API

Controlled information, from WIP to handover



Common data environment (CDE) states and gates, as set out in ISO 19650

BEPs and standards

Roles, naming, LOIN, exchange schedule and coordination procedures, written so project teams can follow them.

Open exchanges

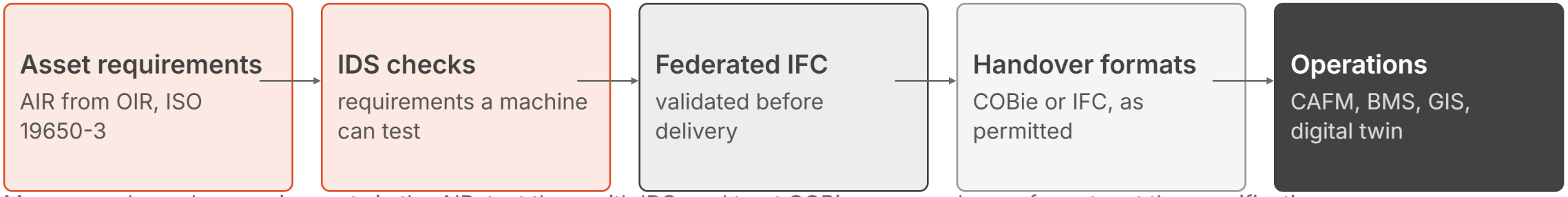
IFC 2×3 and IFC 4 for models, BCF for issues, bSDD for classification and COBie for digital handover.

Security-minded

ISO 19650-5 thinking: need-to-know sharing and controlled access for sensitive and public-sector projects.

HANDOVER, GIS AND DIGITAL TWINS

Information that survives handover



My approach: anchor requirements in the AIR, test them with IDS, and treat COBie as an exchange format, not the specification.

WORKSHOP | HALIFAX, AUGUST 2026

BIM & GIS in Practice

Co-led a hands-on session at the East Coast Industry Summit, supported by buildingSMART Canada, Building Transformations and the Construction Association of Nova Scotia. Focus: openBIM, GIS, ISO 19650 and who owns information at handover.

DIGITAL TWIN READINESS

From handover to operations

Asset data that stays usable after handover: persistent identifiers, AIR-driven data and working knowledge of operational ontologies such as Brick, Haystack and RealEstateCore. Invited to the Digital Twin Leaders Council.

STANDARDS AND INDUSTRY

Helping shape how Canada does BIM

CANADIAN PRACTICE MANUAL FOR BIM | 2026

Contributing to national BIM guidance

buildingSMART Canada | BIM & GIS Workshop

NRC & Publivate | commissioning body

WG2 Technical and Standards

Sub-group B: Open Data Standards, Interoperability and Glossary

One of three peer members of Sub-group B, contributing to drafts on IFC, handover data and terminology. Also contributing to WG4 Maturity and Competency.

OPENBIM AWARDS 2026

Jury member, buildingSMART International

BUILDING TRANSFORMATIONS

Member, Labour, Education and Workforce Think Tank

DIGITAL TWIN LEADERS

Invited to the DTL Council, 2026

GERMAN BIM ROLLOUT

Standards-aligned workflows, CDE set-up and IFC exchange under DIN EN ISO 19650

TRAINING AND ENABLEMENT

Teaching BIM so it sticks

300+

AEC professionals trained, in English and German

Revit, BIM 360, ACC, openBIM, IFC and ISO 19650

The same skills make day-to-day support faster and help new standards stick.

Corporate training

Revit Architecture & Infrastructure, ACC and openBIM/IFC programs for AEC firms

BIM Manager curriculum

20 days, 160 units: slides, trainer scripts, handouts, exercises

Certification prep

Training materials for bSI Foundation and Practitioner bS Germany

eTraining design

eTraining concepts for IFC and Revit fundamentals courses

Day-to-day support

Troubleshooting Revit, IFC mapping and ACC issues for teams

Keeping content current

Tracking release changes, such as Revit 2027 IFC export and integrated AI

INNOVATION AND R&D

Where BIM meets automation and AI

Parametric design, machine learning and programming were part of my architecture studies. I use that background to find where software can take repetitive, error-prone work off people.

CONCEPT | CRUXL

IFC readiness before export

A Revit add-in concept that checks parameters, classification and IFC mapping before export, so errors are fixed where they start.

ADVISORY

From 2D drawings to BIM

Advising the developer of Archibex, an AI architectural studio, on Revit workflows, property sets and data for FM and digital twins.

AUTOMATION

Dynamo, Python, Revit API

Scripts for repeat checks and clean-up, plus computational design in Rhino and Grasshopper.

M.Sc. Architecture, University of Kassel: parametric architecture, machine learning and computational design. Machine Learning in Architecture: Generative AI, DigitalFUTURES, 2024.

TOOLS AND CREDENTIALS

Tools, certifications and memberships

Software

ADVANCED

Revit, Autodesk Construction Cloud, BIM 360, Navisworks, BIMcollab Zoom

INTERMEDIATE

Dynamo, Python, Rhino and Grasshopper

ALSO USED

Solibri, Dalux, Forma, IFC Manager, ParameterTool, Enscape

Certifications and education

ISO 19650 BIM Project Information Professional
BSI 2026, Parts 1, 2, 4, 5, 6

buildingSMART Professional Certification, Foundation Basic
buildingSMART International, 2023

Delivering COBie Using Autodesk Revit
University of Florida, 2024

M.Sc. Architecture
University of Kassel, Germany

Memberships and languages

buildingSMART Canada
Member; WG2 and WG4 contributor

Building Transformations
Member, think tank contributor

Languages
English (fluent), German (fluent), Persian (native), Turkish (native)

LET’S TALK

Have a BIM problem that keeps coming back? Let’s find where it starts.

A short conversation is usually enough to see where information breaks down and what to fix first.

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LINKEDIN

Hanieh Yari

BASED IN

Calgary, Alberta

A note on the visuals: client models and drawings from these projects are confidential, so the diagrams here are redrawn to show method, not client data.