



DAVID CHINCHILLA

CICH 8222 · Civil Engineer

Civil BIM Specialist · Revit Developer · Construction Software Developer · Automation Systems Architect

Civil engineer (CICH 8222) with 12 years in Revit and full-cycle BIM delivery, and founder of ConsuConstruct S. de R.L., managing 140+ clients across residential, institutional and government projects in Honduras (2020–present). I do not just use BIM and coordination tools — I build them. Author of a 48-tool Revit MCP bridge running systematic clash/mismatch detection via the Revit API, and EstimaStruct, a proprietary construction-ERP platform. Structural engineer coding ACI 318-19, AISC 360-16 LRFD and CHOC-08 Honduras seismic in own Python engines, validated with 22/22 unit tests.

12

YEARS REVIT / BIM

140+

CLIENTS MANAGED

48

REVIT MCP TOOLS BUILT

8

PROJECTS BUILT & DELIVERED

CONTACT

consuconstruct.com/en/about-me
david.chinchilla@consuconstruct.com
+504 9662-8408
linkedin.com/company/consuconstruct
github.com/DavidChin0
Tegucigalpa, Honduras — Relocatable, remote LATAM

EDUCATION & LICENCE

—BSc Civil Engineering — UNITEC
—CICH 8222 — Colegio de Ingenieros Civiles de Honduras
—UNDP registered supplier · HonduCompras / ONCAE / CIRCE
—Codes: ACI 318-19 · AISC 360-16 LRFD · CHOC-08 · CSI MasterFormat

LANGUAGES

—Spanish — native
—English — fluent, daily professional use

BIM & ENGINEERING

Revit

Navisworks

AutoCAD / Civil 3D

ACC / BIM 360

ETABS

SAFE

FoundAxis

ACI 318-19

AISC 360-16 LRFD

CHOC-08

CORE FIT FOR THIS ROLE

- **Revit BIM modeling & coordination, 5+ years** — authored a 48-tool Revit API automation suite (named-pipe stdio) driving model extraction, type matching, and tagging across live projects.
- **Clash detection & model QA at scale** — ran automated model-vs-cost-catalog audits over 667 model rows (types, compound assemblies, layers) flagging mismatches pre-construction, plus Navisworks clash detection, element filtering, and model coordination.
- **Constructability & document review** — reviewed construction drawings, specs, and quantities for 140+ clients and 112 projects, including bank-financed budgets accepted by 6 Honduran banks and remote take-offs for US general contractors (CSI MasterFormat).
- **Multidisciplinary coordination** — coordinated structural, MEP, and architectural scopes end-to-end as project lead on 8 delivered buildings, including MEP conduit-by-circuit routing and clash checks.
- **Civil-adjacent, fast-ramping** — licensed Civil Engineer (CICH 8222, BSc UNITEC); site development and utilities are an adjacent scope I ramp into, not existing project history.

EXPERIENCE

Founder · Project Manager — Contractor

ConsuConstruct — Tegucigalpa, Honduras

- Built a Revit-API extraction pipeline exporting 2,344 instances, 719 materials, and 101 compound wall/floor/roof assemblies to structured JSON for downstream QA and quantity workflows.
- Diagnosed and resolved 38 structural steel/concrete type mismatches (AISC W-shape/HSS designations, metric-vs-imperial variants, renamed project types) via custom regex matching after standard exact-match failed.
- Developed an idempotent mark/tag sync tool between reference and target models (4-pass matching), verified zero drift on re-run.
- Delivered 8 built projects and 112 modeled projects for 140+ clients, coordinating structural and MEP disciplines from model to bank-approved budget documentation.

Remote Senior Estimator (US market)

Backmanage HN — clients incl. A Rising Builders, California

- Quantity take-offs and cost estimates for US-based GCs remotely; first exposure to CSI MasterFormat standardization, reviewing drawings/specs for constructability.

Independent Consultant — Estimating Process Automation

Presidential Project "Ciudad Mujer"

- Automated estimating workflows for facility operations; developed the maintenance plan and trained staff on cost-estimation.

Site Engineer Assistant

Structural works — Hotel Hyatt project, Tegucigalpa

- Formwork review, steel reinforcement modulation and concrete volume control.

2020 – Present

2022 – 2023

CONSTRUCTION WORK, BUILT.

Eight residential and commercial projects built in Honduras — from blueprint to delivered site. Real evidence, not renders.



FITTACORI

Cascabeles, Comayagua

Training hall



OASIS

Res. Versailles, Valle de Ángeles

120 m²



SANDI

Tatumbra, F.M.

130 m²



RESTRUCT

Cerro Grande, Valle de Ángeles

130 m²



EXTRACT

Tatumbra, F.M.

100 m²



SAUCE

Res. El Sauce, F.M.

150 m²



CYPRES

Santa Ana, F.M.

52.5 m²



RIVADENEIRA

Yuscarán, El Paraíso

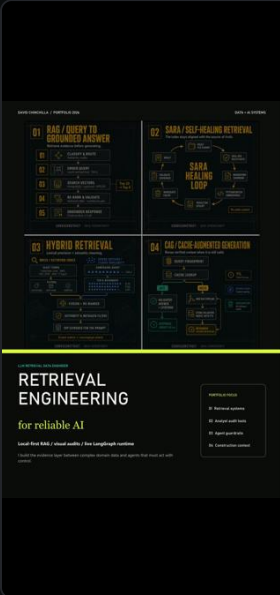
50 m²

ON SITE — REAL EVIDENCE



TECHNICAL PORTFOLIOS.

Five specialized documents attached — each with complete technical evidence, drawings, code and measured results.



DATA + AI SYSTEMS

Retrieval Engineering for Reliable AI

Local-first RAG over PostgreSQL + pgvector, self-healing retrieval, hybrid search, auditable LangGraph runtime.

↳ Open full portfolio · 13 pages



ESTIMATING PORTFOLIO

The Estimator Who Built the Estimating Engine

EstimaStruct: from blueprints and spreadsheets to a traceable BIM-to-budget system, built by the estimator himself.

↳ Open full portfolio · 13 pages

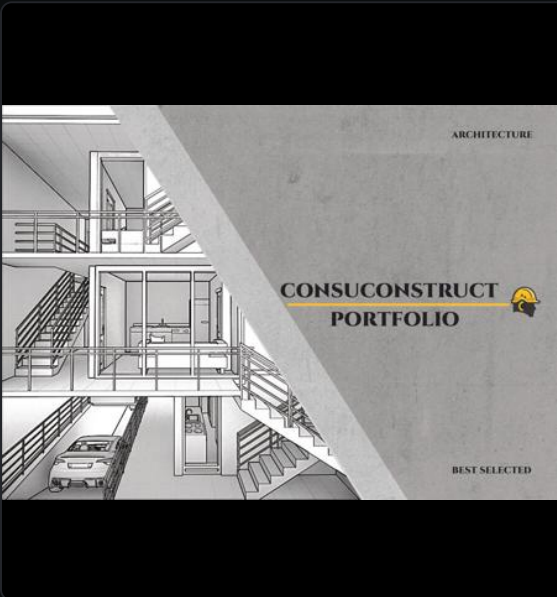


MEP · BIM · AUTOMATION

ConsuConstruct — MEP BIM Automation

Proprietary MEP coordination tools over real BIM models — circuits, plumbing, and automated clash detection.

↳ Open full portfolio · 17 pages



ARCHITECTURE · BIM

ConsuConstruct Architecture Portfolio

Selection of architectural design and BIM modeling — from massing to constructive detail.

↳ Open full portfolio · 34 pages



STRUCTURAL ENGINEERING

ConsuConstruct Structural Portfolio

Structural design, analysis, technical documentation and built-work evidence across selected projects.

↳ Open full portfolio · 27 pages