

ELIUTH CHAVERO JASSO

Electrical BIM/VDC Specialist & Electrical BIM Lead

Electromechanical Engineer | U.S. Mission-Critical Projects | AEC Automation | LOD 300–500

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PROFESSIONAL PROFILE

Electrical BIM/VDC professional with 6+ years of experience delivering coordinated electrical models, construction documentation, shop drawings, prefabrication packages, and multidisciplinary coordination for complex U.S. projects. Project portfolio includes 30+ data centers and 25+ healthcare facilities, together with semiconductor, aerospace, energy, utility, and institutional work. Experienced in power distribution, lighting, telecom, security, overhead and underground raceways, QA/QC, constructability, and LOD 300–500 delivery. Currently serves as Technical PM & Revit Developer at Shokworks, leading EMA AI and extending field-oriented BIM expertise into Revit automation, deterministic QA/QC, owner-requirement intelligence, evidence, and deliverable-readiness workflows.

TECHNICAL EXPERTISE

Electrical BIM/VDC: Revit modeling, model federation, clash detection, coordination, constructability, shop drawings, spool drawings, prefabrication, model governance, QA/QC, and field-oriented documentation.

Electrical Systems: Power distribution, branch circuits, panelboards, feeders, UPS, generators, switchgear, busways, grounding, lighting, telecom, security, life safety, overhead and underground conduit, risers, supports, and equipment layouts.

Delivery & Automation: Revit, Navisworks Manage, Autodesk Construction Cloud, Revizto, EVOLVE MEP, Bluebeam, Dynamo, Revit API, C#, Python, FastAPI, PostgreSQL, Qdrant, Docker, Git, NVIDIA Omniverse, Excel, and Power BI.

SELECTED BIM PROJECT EXPERIENCE

Hyperscale Data Center Campus

Data Center — Mountain West, United States

Role: Electrical Lead | **Discipline:** Electrical | **LOD:** 350–400

Tools: Revit, Navisworks Manage, ACC, EVOLVE MEP, Bluebeam

- Led modeling and coordination of low- and medium-voltage distribution, UPS systems, switchgear, and associated electrical infrastructure.
- Produced coordinated rack layouts, prefabrication-oriented shop drawings, and installation-ready electrical packages while supporting clash resolution.

Hyperscale Data Center Campus

Data Center — Mid-Atlantic, United States

Role: BIM Engineer | **Discipline:** Electrical | **LOD:** 350–400

Tools: Revit, Navisworks Manage, ACC, Bluebeam, EVOLVE MEP

- Modeled branch circuits, busways, distribution panels, raceways, and mission-critical electrical infrastructure.
- Delivered prefabrication spool drawings and shop drawings and supported clash detection and QA/QC of electrical BIM deliverables.

Liquid-Cooled Hyperscale Data Center

Liquid-Cooled Data Center — Ontario, Canada

Role: Electrical Lead | **Discipline:** Electrical | **LOD:** 350–400

Tools: Revit, Navisworks Manage, ACC, Bluebeam

- Directed electrical BIM delivery for a liquid-cooled hyperscale facility, coordinating branch circuits, grounding, lighting, and electrical distribution.
- Oversaw QA/QC and constructability reviews of coordinated shop drawing packages and multidisciplinary model interfaces.

Data Center Renovation — Live Environment

Data Center Renovation — Southwest, United States

Role: BIM Engineer | **Discipline:** Electrical | **LOD:** 350–400

Tools: Revit, Navisworks Manage, ACC, Bluebeam

- Modeled branch circuits, busways, power distribution, and coordinated raceway systems for an active data-center renovation environment.
- Produced prefabrication spool drawings and coordinated electrical systems with multiple trades to improve constructability and installation readiness.

Silicon Carbide Manufacturing Center

Advanced Manufacturing — Southeast, United States

Role: Electrical Lead | **Discipline:** Electrical | **LOD:** 350–400

Tools: Revit, Navisworks Manage, ACC, EVOLVE MEP, Bluebeam

- Led electrical BIM coordination for low- and medium-voltage distribution, UPS systems, switchgear, and related manufacturing infrastructure.

- Delivered prefabrication packages and shop drawings and coordinated electrical systems with MEP and process-system stakeholders.

Acute-Care Hospital Expansion

Healthcare — Florida, United States

Role: Electrical Lead | **Discipline:** Electrical | **LOD:** 350

Tools: Revit, Navisworks Manage, ACC, Bluebeam

- Led electrical BIM development for a hospital expansion, including branch circuit layouts, grounding systems, panel schedules, and coordinated distribution.
- Coordinated electrical systems with mechanical and architectural teams to resolve spatial conflicts and improve constructability.

Major Convention Center

Convention Center — Texas, United States

Role: Electrical BIM Lead | **Discipline:** Electrical | **LOD:** 350

Tools: Revit, Navisworks Manage, ACC, EVOLVE MEP, Bluebeam

- Modeled and coordinated substations, risers, overhead conduit, roof feeds, and underground conduit routes across multiple building levels and areas.
- Managed electrical coordination, production status, QA/QC, and field-oriented deliverables for constructability and installation planning.

Hospital Campus Expansion

Healthcare — Texas, United States

Role: Electrical BIM Lead / BIM Operations Manager | **Discipline:** Electrical | **LOD:** 300–350

Tools: Revit, Navisworks Manage, ACC, EVOLVE MEP, Bluebeam

- Led electrical BIM/VDC delivery for power, lighting, panelboards, feeders, raceways, risers, and multidisciplinary coordination scopes.
- Managed distributed production resources, QA/QC, client communication, schedule tracking, and construction-ready deliverables.

Hospital Bed Tower

Healthcare — Florida, United States

Role: Electrical BIM/VDC Lead | **Discipline:** Electrical | **LOD:** 350

Tools: Revit, Navisworks Manage, ACC, EVOLVE MEP, Bluebeam

- Coordinated electrical power, lighting, feeders, raceways, and equipment layouts for a major healthcare expansion.
- Supported constructability reviews, clash resolution, shop drawing development, and multidisciplinary model coordination.

Hyperscale Data Center — Data Center — United States

Role: BIM Engineer | **Discipline:** Electrical | **LOD:** 350–400 | **Tools:** Revit, Navisworks Manage, ACC, Bluebeam

Supported electrical model development, raceway and distribution coordination, prefabrication documentation, clash resolution, and QA/QC.

Hyperscale Data Center — Data Center — Midwest, United States

Role: BIM Engineer | **Discipline:** Electrical | **LOD:** 350–400 | **Tools:** Revit, Navisworks Manage, ACC, Bluebeam

Contributed to coordinated electrical BIM delivery for branch circuits, power distribution, raceways, equipment layouts, and construction documentation.

Aerospace Manufacturing Facility — Aerospace / Industrial — United States

Role: Electrical BIM/VDC Specialist | **Discipline:** Electrical | **LOD:** 350 | **Tools:** Revit, Navisworks Manage, ACC, Bluebeam

Supported electrical modeling, multidisciplinary coordination, constructability review, documentation, and QA/QC for an aerospace facility.

Urban Medical Center — Healthcare — California, United States

Role: BIM Coordinator | **Discipline:** Electrical | **LOD:** 350 | **Tools:** Revit, Navisworks Manage, ACC, Bluebeam

Supported electrical model coordination, branch-circuit and distribution layouts, panel schedules, clash resolution, and healthcare construction documentation.

Cardiac Care Institute — Healthcare — Florida, United States

Role: Electrical BIM/VDC Specialist | **Discipline:** Electrical | **LOD:** 350 | **Tools:** Revit, Navisworks Manage, ACC, Bluebeam

Contributed to coordinated electrical models, constructability review, shop drawing development, and multidisciplinary healthcare coordination.

Regional Medical Center — Healthcare — California, United States

Role: Electrical BIM/VDC Specialist | **Discipline:** Electrical | **LOD:** 350 | **Tools:** Revit, Navisworks Manage, ACC, Bluebeam

Supported electrical BIM development, QA/QC, spatial coordination, and construction-ready documentation for a complex healthcare environment.

Private Research University — Higher Education — Texas, United States

Role: Electrical BIM/VDC Specialist | **Discipline:** Electrical | **LOD:** 300–350 | **Tools:** Revit, Navisworks Manage, ACC, Bluebeam

Supported coordinated electrical modeling, document production, constructability, and multidisciplinary design coordination.

Power Generation Station — Power Generation — Mountain West, United States

Role: Electrical BIM/VDC Specialist | **Discipline:** Electrical | **LOD:** 300–350 | **Tools:** Revit, Navisworks Manage, AutoCAD, Bluebeam

Contributed to electrical modeling, equipment and raceway coordination, technical documentation, and industrial constructability reviews.

Lower Wastewater Treatment Plant — Water / Wastewater Infrastructure — United States

Role: Electrical BIM/VDC Specialist | **Discipline:** Electrical | **LOD:** 300–350 | **Tools:** Revit, Navisworks Manage, AutoCAD, Bluebeam
Supported electrical BIM coordination for utility infrastructure, including equipment layouts, raceways, multidisciplinary interfaces, and documentation.

Regional Hospital — Healthcare — Florida, United States

Role: Electrical BIM/VDC Specialist | **Discipline:** Electrical | **LOD:** 350 | **Tools:** Revit, Navisworks Manage, ACC, Bluebeam
Supported coordinated power, lighting, branch-circuit, panelboard, and raceway modeling together with healthcare clash resolution and construction documentation.

Semiconductor Fabrication Facility — Advanced Manufacturing — Southeast, United States

Role: Electrical BIM/VDC Specialist | **Discipline:** Electrical | **LOD:** 350–400 | **Tools:** Revit, Navisworks Manage, ACC, EVOLVE MEP, Bluebeam
Supported electrical distribution and raceway coordination, prefabrication-oriented documentation, QA/QC, and multidisciplinary integration for a semiconductor facility.

CURRENT ENGINEERING INTELLIGENCE EXPERIENCE**Technical PM & Revit Developer**

Mar 2026–Present

Shokworks, Inc. | Remote

- Lead technical delivery of **EMA AI**, a Revit add-in Engineering Intelligence and Deliverable Readiness platform connecting model extraction, deterministic QA/QC, owner requirements, evidence, readiness scoring, reporting, and AI-assisted technical explanations.
- Translate client and business requirements into product scope, user stories, technical specifications, acceptance criteria, UAT cases, release gates, traceable evidence, and implementation priorities across AEC, product, and software teams.
- Coordinate Revit add-in, backend, data, and validation work using C#, Python, Revit API, FastAPI, PostgreSQL, Qdrant, Docker, Git/GitHub, and PowerShell; recorded 957/957 C# and 206/206 Python tests passing outside the Revit runtime.

EMA AI — Technical Scope

Revit Automation | Owner Requirements | Deterministic QA/QC | Evidence | UAT | Deliverable Readiness

- Structured 227 owner requirements across Divisions 21, 22, 23, 26, 27, and 28 and designed a controlled pass/fail UAT campaign with evidence, confidence, coverage, and decision traceability.
- Developed discipline-based Revit extraction for All, Electrical, Mechanical, Plumbing, and Lighting scopes and model checks including elements without levels, unconnected fixtures, fixtures missing circuits, and panels without upstream sources.
- Established a governance model in which deterministic engines own official automated results; AI supports search, explanation, summarization, and remediation guidance without approving compliance or altering official evidence.

PROFESSIONAL EXPERIENCE**Virtual Design Engineer**

Mar 2025–Mar 2026

Crusoe Energy Systems | Remote

- Managed electrical BIM/VDC operations, staffing, resource planning, QA/QC, production tracking, proposals, and client communication for U.S. healthcare, commercial, convention-center, and mission-critical projects.
- Led distributed LATAM–U.S. teams delivering LOD 300–400 power, lighting, panelboards, feeders, overhead and underground raceways, risers, coordination, and prefabrication packages.
- Supported lump-sum and managed-service proposals above USD 50,000, including multi-resource staffing and schedule-recovery / weekend-support models.
- Supported BIM/VDC delivery for data centers and critical infrastructure, reviewing constructability, maintainability, equipment access, scalability, and multidisciplinary system integration.
- Developed NVIDIA Omniverse workflows for collaborative model review, real-time visualization, clash evaluation, and stakeholder communication.

Electrical BIM Engineer / BIM Engineer

Mar 2024–Mar 2025

Salas O'Brien & Ehvert Mission Critical | Remote

- Designed, modeled, and coordinated hyperscale and AI data-center electrical systems including distribution, UPS, standby generation, switchgear, lighting, grounding, security, and life safety.
- Prepared and reviewed single-line diagrams, load and voltage-drop calculations, panel schedules, equipment layouts, shop drawings, specifications, and technical documentation.
- Performed electrical QA/QC and multidisciplinary coordination with architecture, structure, mechanical, civil, fire protection, controls, construction, and commissioning stakeholders.

Progressive Electrical BIM/VDC Roles

Feb 2020–Mar 2024

Bergelectric, B&I Contractors, and Comfort Systems USA — via Excelsus | Remote

- Progressed from BIM Drafter and Specialist to BIM Coordinator and Lead across hyperscale data centers, hospitals, industrial facilities, and complex commercial projects.
- Managed LATAM–U.S. production teams, BIM execution plans, project standards, model governance, QA/QC, document control, coordination logs, submittals, client communication, and schedule alignment.
- Delivered coordinated electrical models, raceways, distribution systems, shop drawings, spools, prefab packages, and field-oriented construction documentation.

BIM Instructor — Part Time

Nov 2024–Feb 2025

MEPBIMTEK | Remote

- Delivered applied Revit and EVOLVE MEP training covering electrical and mechanical coordination, prefabrication, spooling, BIM standards, and mixed-reality workflows.

PV Electrical Engineer

Feb 2019–Feb 2020

BE Excellent Energy | Querétaro, Mexico

- Designed commercial photovoltaic systems and electrical installations, including layouts, calculations, voltage-drop analysis, diagrams, technical and financial proposals, and field support.
- Developed Excel macro-based estimating / quotation tools and supported preventive and corrective maintenance activities.

Electrical Systems Lead

Jun 2018–Feb 2019

Bulls Racing Team — Formula SAE | Mexico

- Designed a high-voltage accumulator and battery-management system for an electric Formula SAE vehicle and supported electrical audits, component integration, procurement, APQP, FMEA, and assembly modeling.
- Prepared and delivered technical presentations in English and Spanish.

CROSS-PROJECT BIM AUTOMATION & LEADERSHIP

BIM Automation & QA: Developed Dynamo and Python workflows for parameter enforcement, automated sheet generation, naming-standard validation, model-health auditing, QA/QC checks, and structured Excel/CSV data extraction to improve consistency, traceability, and production efficiency across BIM deliverables.

BIM Leadership & Production: Led BIM production on complex and hyperscale projects, including junior coordinator onboarding, workload delegation, template and standards development, production planning, model-review workflows, QA/QC oversight, technical mentoring, and BIM/VDC instruction.

Digital Delivery & CDE: Managed Common Data Environment workflows, coordinated model publishing, document control, issue tracking, project standards, multidisciplinary coordination, and digital handoff across Autodesk Construction Cloud, Revizto, Bluebeam, ClickUp, Monday, Excel, and related project-delivery platforms.

Constructability & Prefabrication: Supported field-oriented digital delivery through coordinated shop drawings, spool drawings, modular prefabrication packages, electrical-room detailing, raceway layouts, constructability reviews, and installation-ready documentation for electrical contractors and project teams.

Emerging BIM Technologies: Applied NVIDIA Omniverse, HoloLens 2, Trimble AR, and immersive BIM workflows for collaborative design review, model visualization, coordination, stakeholder communication, and exploration of next-generation digital construction workflows.

EDUCATION

B.Sc. in Electromechanical Engineering 2016–2021

Tecnológico Nacional de México | Mexico

B.Sc. Artificial Intelligence Engineering — Paused 2020–2023

Instituto Politécnico Nacional, UPIIT | Mexico

Technical Diploma in Programming 2013–2016

General Directorate of Industrial Technological Education | Mexico

INTERNATIONAL EXPERIENCE

International Mobility Scholarship — Germany 2019

pro international e.V. | Marburg, Germany

International mobility experience focused on intercultural collaboration, community engagement, workshop facilitation, and adaptation within a multicultural environment.

International Technical Mobility Scholarship — Canada 2019

Silver Valley Farms | British Columbia, Canada

Technical placement supporting low-voltage electrical installations, electrical drawings, troubleshooting, fault tracing, and preventive and corrective maintenance.

CERTIFICATIONS

BIM & Digital Construction: BIM Project Management Professional (2024); Metaverse BIM Integration Specialist (2025); Dynamo BIM: From Zero to Hero (2025); Revit Families: Beginner to Pro (2024).

Automation & Development: Python and Revit API (2025).

Safety: DC3 Work at Heights (2022).

LANGUAGES

Spanish — Native | **English** — Professional working proficiency | **German** — Basic conversational proficiency

Selected project descriptions summarize the candidate's direct participation and responsibilities. Project names, scope, deliverables, and technical details may be adjusted where required by client confidentiality, contractual obligations, or project-specific disclosure restrictions.