

Shawn Barry

VDC/BIM Coordinator/Process Designer

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CAREER SUMMARY

Senior VDC/BIM Coordinator and Process Piping Designer with 10+ years supporting semiconductor fabs, advanced manufacturing, tool installation, factory layout, and complex utilities. Converts concepts into coordinated 2D/3D designs using Revit, AutoCAD Plant 3D, Navisworks, and Forma (ACC), with expertise in equipment layout, utility routing, clash detection, P&IDs, and constructability.

PROFESSIONAL EXPERIENCE

Arcadis (Hoffman Construction), Boise, ID — BIM Coordinator (Contract)

2025 - Present

- Lead VDC/BIM coordination for a large-scale semiconductor fab program, integrating multidisciplinary design and trade models for coordinated project delivery.
- Direct space coordination, model federation, clash detection, and constructability reviews in Navisworks Manage, Revit, ACC, and Bluebeam.
- Coordinate with design, construction, and contractor teams to support prefabrication, installation planning, issue resolution, and measurable model progress.

Page (Adv. Manufacturing), Austin, TX — Process Mechanical Designer

2024 - 2025

- Developed coordinated 3D equipment layouts and process-mechanical piping designs for semiconductor fab tool-install and base-build systems using Revit and AutoCAD Plant 3D.
- Routed utilities between base-build distribution and equipment connection points; produced P&IDs, equipment layouts, isometrics, and spool-ready design information.
- Performed interference reviews and multidisciplinary coordination while accounting for ASME/ANSI requirements, access, clearances, constructability, and maintainability.

ZELUS (Samsung), Austin, TX — VDC/BIM Lead (Contract)

2023 - 2024

- Led BIM/VDC coordination for Samsung semiconductor fab, gas, chemical, and slurry (GCS) systems, supporting a distributed design team and fast-moving field priorities.
- Developed and coordinated LOD 500 fabrication models, drawings, and isometrics for high-purity commodity-delivery systems within congested fab environments.
- Resolved cross-trade clashes and model issues to improve fabrication accuracy, installation sequencing, and construction readiness.

Farnsworth Group, Inc., Round Rock, TX — Sr. Process Piping Designer (Contract)

2022 - 2023

- Developed 3D process-piping, equipment-layout, and utility-routing designs for complex industrial and advanced-manufacturing facilities.
- Translated P&IDs and engineering requirements into coordinated models and drawings, identifying missing information and practical routing solutions within constrained spaces.
- Supported multidisciplinary reviews, clash resolution, constructability, and construction-document development using Revit, AutoCAD Plant 3D, and Navisworks.

Tesla, Austin, TX — Senior Process Designer

2021 - 2022

- Led layout and piping design for the electrodeposition (EDP) coating process at Gigafactory Texas, progressing work from concept development through installation and commissioning support.
- Produced coordinated 3D piping layouts, equipment arrangements, P&IDs, and PFDs in Revit and Navisworks for advanced automotive manufacturing infrastructure.
- Coordinated multidisciplinary interfaces for code compliance, material compatibility, equipment access, and maintainability.

DCS Engineering, Austin, TX — CAD Manager 2019 - 2021

Big Red Dog, Dallas, TX — Civil Designer 2017 - 2019

SPEC Service, Fountain Valley, CA — Senior Process Designer 2009 - 2017

SKILLS

Semiconductor Fab -
Layout
Tool Install / Hookup
Equipment Space -
Planning
Process & Utility Routing
High-Purity Piping
P&IDs / PFDs / Isometrics
Clash Detection /
Resolution
Constructability Reviews
BIM/VDC Coordination
Laser Scanning / Point
Clouds
Training / Mentorship

APPLICATIONS

Revit 2019 - 2026
AutoCAD Plant 3D
Navisworks Manage
Bluebeam
Procore
Smartsheets
Microsoft Office
Forma (ACC)
Adobe Creative Cloud
AutoCAD Civil 3D
Autodesk ReCap
CEA Plant 4D
Bentley Pointools
SharePoint
NICE DCV