

Victor Alvarez

Senior Facilities Engineer

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📍 Houston, TX

🌐 linkedin.com/in/victoralvarez

SKILLS

Facilities Engineering ●

HVAC ●

Electrical ●

Plumbing ●

AutoCAD ●

Troubleshooting ●

Building Automation Systems ●

Project Management ●

Microsoft Office ●

Communication Skills ●

EDUCATION

Bachelor of Science 05/2017

Texas A&M University

College Station, TX

Mechanical Engineering

CERTIFICATES

**Professional Engineer (PE),
Mechanical**

04/2022

Texas Board of Professional
Engineers and Land Surveyors

**Certified Healthcare Facility
Manager (CHFM)**

09/2024

American Hospital Association

SUMMARY

Senior Facilities Engineer with 9 years running mechanical, electrical and plumbing systems for hospitals and research labs. Leads HVAC and central plant upgrades from AutoCAD design review through startup, manages \$8M capital plans, and handles troubleshooting on critical systems with clear updates to clinical and lab leaders. Licensed Professional Engineer in Texas.

EXPERIENCE

Senior Facilities Engineer 03/2022 - Present

Bayou City Medical Center Houston, TX

650-bed hospital campus with a 9,000-ton central plant.

- Lead facilities engineering for a **9,000-ton** central plant, 4 boilers and 120 air handlers.
- Manage \$8M in annual capital projects, including 2 chiller replacements finished on time and under budget.
- Review AutoCAD and MEP drawings for 25 renovations, catching 60+ code and coordination issues before construction.
- Mentor 4 facilities engineers and guide troubleshooting on surgery suite pressure and humidity alarms.

Facilities Engineer 06/2018 - 02/2022

Gulf Coast Research Institute Houston, TX

Biomedical research institute with 1.1M sq ft of lab space.

- Upgraded building automation systems in **6** buildings, cutting energy use 14%.
- Designed electrical and plumbing changes for 30 lab fit-outs with in-house trades.
- Wrote standard operating procedures for 40 critical systems used by 3 shifts.
- Resolved 15 recurring vivarium HVAC alarms through root cause analysis with controls vendors.

Mechanical Engineer 06/2017 - 05/2018

Energy Corridor MEP Consultants Houston, TX

MEP design firm serving commercial, school and healthcare clients.

- Designed HVAC systems for **8** commercial and school projects.
- Ran load calculations and equipment selections for 500,000 sq ft of new space.
- Prepared AutoCAD drawings and specifications for permit sets.