

Joaquin Nguyen

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SUMMARY

HVAC Technician with eight years of progressive experience maintaining central plants and complex building systems in institutional and commercial facilities. Skilled with chillers, boilers, cooling towers, pumps, heat exchangers, **air handling units**, refrigeration equipment, water treatment, pneumatic controls, **direct digital controls**, and Energy Management Systems. Diagnoses mechanical, electrical, plumbing, control, and refrigeration faults across occupied facilities while preserving accurate operating logs and equipment histories. Provides lead worker guidance during complex repairs, planned shutdowns, **preventive maintenance**, and safe equipment operation. Applies **EPA Section 608** requirements, trade safety practices, blueprints, shop drawings, chemical testing procedures, and equipment documentation during independent field assignments. Comfortable with elevated work, confined spaces, ladders, lifts, forklifts, light trucks, and varied temperatures.

EXPERIENCE

Lead HVAC Technician

February 2024 - Present

Magnolia Regional Medical Center

Baton Rouge, LA

Leads daily HVAC service across a multi building medical campus, coordinating central plant operations, critical repairs, preventive maintenance, refrigeration, controls, documentation, and technician guidance around patient care requirements.

- Prioritized **central plant** repairs around occupied medical campus operating requirements and patient care needs.
- Diagnosed chiller, boiler, pump, cooling tower, and direct digital control faults through equipment inspection.
- Guided technicians through complex repairs, planned shutdowns, safety controls, parts needs, and completion expectations.
- Maintained **preventive maintenance** schedules, **operating logs**, and equipment histories for critical HVAC assets.
- Tested closed loop and condenser water, documented chemical readings, and adjusted treatment within procedures.
- Reviewed **blueprints**, **shop drawings**, control diagrams, and manufacturer information before repairs or modifications.

HVAC Technician II

June 2022 - January 2024

Red River Research Center

Alexandria, LA

Maintained central plant and building HVAC systems serving laboratories and offices, supporting Energy Management System monitoring, refrigeration service, electrical troubleshooting, plumbing repairs, equipment movement, and accurate service records.

- Maintained chillers, boilers, pumps, **cooling towers**, air handlers, exhaust systems, and piping.
- Reviewed **Energy Management System** alarms, schedules, temperatures, pressures, and equipment status during investigations.
- Repaired **walk in refrigeration**, reach in units, **ice machines**, thermostats, dampers, and refrigerant circuits.
- Replaced failed contactors, motors, valves, actuators, and traps during electrical and plumbing **troubleshooting**.
- Updated daily logs, maintenance records, parts information, and repair history after service calls.
- Operated forklifts, **light trucks**, lifts, and trade equipment under site safety procedures.

HVAC Technician

September 2020 - May 2022

Pelican Coast Facilities Services

Lafayette, LA

Serviced commercial **heating** and cooling systems across multiple facilities, completing preventive maintenance, corrective repairs, refrigerant work, control troubleshooting, plan review, equipment replacement, and customer communication with limited supervision.

- Serviced split systems, **mini splits**, package units, air handlers, pumps, **thermostats**, and controls.
- Troubleshoot automated controls with gauges, meters, hand tools, and manufacturer service information.
- Read mechanical plans, wiring diagrams, and **sketches** before replacement or **piping** modifications.
- Recovered, evacuated, charged, and leak checked refrigerant circuits under **EPA Section 608** practices.
- Inspected filters, belts, bearings, coils, drains, electrical connections, and control components.
- Coordinated facility access and equipment status while explaining repairs and remaining concerns.

HVAC Maintenance Technician

October 2018 - August 2020

Cypress Building Operations

New Orleans, LA

Supported heating, cooling, ventilation, and building maintenance for a large commercial property, developing practical skill with mechanical rooms, occupied spaces, routine repairs, work orders, tools, and safe material handling.

- Inspected **air conditioning** equipment, recorded temperatures and pressures, and reported abnormal conditions.
- Cleaned components, changed filters and belts, lubricated assemblies, and documented service findings.
- Troubleshoot motors, contactors, thermostats, condensate systems, **pumps**, and **refrigeration** components under supervision.
- Used hand and power tools for HVAC, basic **plumbing**, and general maintenance assignments.
- Maintained work order notes and equipment records with materials, conditions, and follow up needs.
- Supported rooftop and mechanical room work involving ladders, lifts, **confined spaces**, and outdoor conditions.

PROJECTS

Central Plant Reliability Program 2025

Reviewed recurring equipment findings, operating logs, and preventive maintenance records to support reliable service planning across critical HVAC assets.

Energy Management System Review 2023

Used alarms, schedules, temperatures, pressures, and equipment status to trace abnormal conditions across laboratory and office HVAC systems.

LEADERSHIP & AWARDS

- Lead worker recognition for guiding technicians through complex repairs and planned equipment shutdowns.
- EPA Section 608 Universal certification recognized for compliant refrigerant handling and service practices.
- Trusted resource for accurate operating logs, equipment histories, and recurring maintenance findings.

EDUCATION

Associate of Applied Science in Air Conditioning and Refrigeration Technology

2018

Delgado Community College GPA: 0

New Orleans, LA

Coursework: HVAC systems, refrigeration, electrical troubleshooting, plumbing systems

CERTIFICATIONS

- EPA Section 608 Universal Certification 2018
- OSHA 10 Hour General Industry 2022

TECHNICAL SKILLS

- **Central Plant Equipment:** Chillers, boilers, cooling towers
- **Hydronic Systems:** Pumps, heat exchangers, piping
- **Air Distribution:** Air handlers, fan coils, exhaust fans
- **Refrigeration Equipment:** Walk in units, reach in units, ice machines
- **HVAC Controls:** Pneumatic controls, direct digital controls, thermostats
- **Energy Management:** Energy Management Systems, alarms, schedules
- **Water Treatment:** Closed loop testing, condenser water, chemical treatment
- **Electrical Service:** Contactors, motors, valves
- **Plumbing Service:** Traps, drains, piping
- **Technical Documents:** Blueprints, shop drawings, wiring diagrams
- **Safety Practices:** EPA Section 608, OSHA, lockout procedures
- **Material Handling:** Forklifts, light trucks, lifts

SKILLS

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|----------------------|-------------------|-----------------------------|------------------------------|
| • Central plant HVAC | • Heat exchangers | • Water treatment | • Electrical troubleshooting |
| • Chillers | • Pumps | • Energy Management Systems | • Plumbing systems |
| • Boilers | • Air handlers | • Direct digital controls | • Preventive maintenance |
| • Cooling towers | • Refrigeration | • Pneumatic controls | |

PROFESSIONAL AFFILIATIONS

- Facilities maintenance teams, supporting safe coordination across HVAC, electrical, plumbing, and building operations.
- Medical campus service teams, coordinating equipment access and shutdowns around occupied facility needs.

LANGUAGES

- English (Native)
- Vietnamese (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST