

# KHOA V.D HUYNH

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Goodyear, AZ 85338

(U.S. Citizenship)

A Electrical Engineer of Manufacturing Machine Automation with comprehensive experience in plant automated control systems including electro-mechanical components, sensors, pneumatics, and drive systems. Proficient in troubleshooting, system integration, implementation, and project management. An eager-to-learn professional dedicated to fostering mutual growth with the company.

## SKILLS:

- Industrial Automation: PLC, HMI, SCADA, RFID, 3D, AutoCAD, Cloud Technology, Allen Bradley, Siemens, Bluebeam
- Teamwork; Ethical; Attention to Detail; Bilingual, Problem Solving, Time Management.
- Programming & Data: SQL, Python, C++, HTML, CSS, JavaScript, Machine Learning, Bash, Matlab, Multisim.
- I.T: AWS, Security+, Linux, Container, Citrix, Remedy, Git.
- Documentation: Drafted Design Specifications, Test Plans, and Engineering Reports.

## WORK EXPERIENCE:

### Siemens, Tempe/Phoenix, AZ

11/2024 - present

(Building Automation Solutions / Field System, senior Automation Installer Specialist)

- Installed, serviced and controlled building automation systems (BAS/BMS) for HVAC, lighting, security, and access control.
- Ensured system database and programming, graphics verification including test and write modifications to system software.
- Integrated building system using various industrial control network protocols: BACnet, N2, and Modbus.
- Experienced with construction setting for mechanical, plumbing, boiler, chiller, air handler, and electrical systems.

### Humana, Phoenix, AZ

12/2022 – 11/2024

(Automation Pharmacy Engineering Technician)

- Utilized hand and power tools for regular preventative maintenance, inspections, and repairs.
- Supported the development of equipment and system designs to achieve 50,000 prescription orders daily.
- Conducted root cause analysis to eliminate malfunctions, reduce cost, and improve quality.
- Skilled in navigating and modifying HMI applications, connecting to PLCs and troubleshooting programming logic.
- Support and maintain SCADA systems, ensuring accurate KPI monitoring and reporting.
- Ensured drug distribution reliability to target machine downtime under 3%.
- Worked on AC/DC motors and motor controls under a 3-phase 480V electric and electrical equipment environment.
- Setup connections between controllers, sensors, transmitters, instruments for automation control systems.
- Collaborated with cross-functional teams to implement an advanced control system to improve efficiency.
- Proficient in applying engineering software tools to perform systems reliability and maintainability.
- Aided automation engineers in developing PLC code and HMI interfaces to satisfy emerging operational criteria.
- Identified root causes for issues, performance of critical assets while applying engineering and information technology

### NASA Texas Space Grant Consortium Design Challenge

09/2021- 06/2022

(Technical Design System Lead)

- Designed interchangeable controllers for automation, interacting with sensors, executing program base on position.
- Applied AutoCAD to create 3D printing model prototypes and developed a Python-based GUI for the microcontroller.
- Successfully developed a highly reliable product with a swapping rate above 95%, all within a budget of \$1000.

### Vinny AC, Houston, TX

06/2021 – 08/2022

(AC Technician Associate)

- Diagnosed and repaired electrical and mechanical faults in HVAC systems.
- Communicated issues and cost estimates with clients, ensuring high-quality service delivery.
- Performed in reports, and functional testing procedures for HVAC, air flow, controls system.

### U.S. Department of Commerce, Katy, TX

05/2020 – 11/2020

(IT Support Specialist)

- Managed the remote deployment of OS patches and updates to avoid service and resolve technical issues.
- Applied information security protocols to oversee account credentials and directed the need to higher-level support.

### US Jaclean, Houston, TX

05/2016 – 09/2019

(Manager)

- Managed daily operations in sales, covering vending, retail, and wholesale channels.
- Led a team of 10, coordinating project deadlines, and ensuring successful product distribution.
- Adopted a transparent sales approach, fully informing clients about product feature and limitation to their needs.
- Ranked among the top 3 sales in the region.

## EDUCATION:

The University of Texas at Tyler, Houston, TX

Graduated: 06/2022

Bachelor of Science, Electrical Engineering (BSEE)