

# KHOA V.D HUYNH

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Goodyear, AZ 85338 | Willing to relocate  
(U.S. Citizenship)

Recent graduate in Electrical Engineering candidate 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 Ignition, Allen Bradley, Siemens TIA Portal, RFID, 3D AutoCAD
- 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, Kubernetes, Terraform, Citrix, Remedy, Git
- Documentation: Drafted Design Specifications, Test Plans, and Engineering Reports.

## WORK EXPERIENCE:

### Humana, Phoenix, AZ

12/2022 - present

(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.
- 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.
- Installed production lines including PLC, conveyors, pneumatic, electronics, 80/20, controllers, and I/O systems.
- Performed integrated testing of the entire O.T system. Setup alarm notifications.
- Setup connections between controllers, sensors, transmitters, instruments.
- Familiar with It and OT network communication protocols (TCP/IP, UDP, DNP3, Modbus, IEC, BACnet, OPC)
- Feedback to future design considerations to enhance operational efficiency.
- Applied cybersecurity measures to protect OT system for ensuring the integrity and availability of industrial systems.
- Managed O. T's hardware and software PLCs, SCADA, CNC, SIEM, SOAR
- Proficient in projects utilizing oscilloscope, multimeter, wiring, soldering, harnessing and logic analyzer.
- Familiarity with vendors Flexlink, SureKap, LDU Tension, Hydro, NPI, AutoBagger, Hydro, QMSI, Edge Water.

### NASA Texas Space Grant Consortium Design Challenge

09/2021- 06/2022

#### Vehicle Interchangeable Electronic Controller (VIEC) Network System

(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.

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

05/2020 – 11/2020

(IT Support)

- 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.

### Vinny AC, Houston, TX

06/2021 – 08/2022

(AC Technician Associate)

- Diagnosed and repaired electrical and mechanical faults in residential HVAC systems.
- Communicated issues and cost estimates with clients, ensuring high-quality service delivery.

### 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.

## EDUCATION:

### The University of Texas at Tyler, Houston, TX

Graduated: 06/2022

Bachelor of Science, Electrical Engineering (BSEE)