

## Experience

### AUTOMATION ENGINEER | ASSURANT

JUL 2025 – PRESENT

- Management and operation of newly installed automated package loading and sorting system
  - Improved unloading and sort times by 30% compared to manual receiving
- Spearheaded identification of issues and best operating procedures for system
  - **PLC** and **VFD** wiring and setup
- Responsible for supporting engineering technicians with system operation and troubleshooting
- Responsible for establishing vendors for spare parts and maintenance
- KUKA Robot **Structured Text** depalletizing programming

### CONTROLS AND AUTOMATION ENGINEER | NABORS DRILLING USA

OCT 2023 – AUG 2024

- Supported and maintained automated rough neck and pipe handling RZR systems on Nabors rigs.
  - Reduced drill string well insertion time by 20% compared to average
  - Reduced drill string extraction time by 35% compared to average
- Performed software upgrades, network troubleshooting, and hardware installations for rig **HMI**s, **IPC**s, and **PLC**s on **Allen Bradley**, **Rockwell**, and **Siemens** hardware
- Deployed **Machine Vision** hardware and software on **Cincoze Embedded PCs** for RZR-lite system upgrades on oil rigs
  - Machine Vision program developed with **C++** using **OpenCV Libraries**
- Imaged, configured, and installed **Linux servers** for Nabors Automation Software and Equipment products on rig floor and man camp

## Education

### TEXAS A&M UNIVERSITY | MECHATRONICS/MULTIDISCIPLINARY ENGINEERING

MAY 2023

- Minor: Embedded Systems Integration
- GPA: 3.4

## Projects

### POMODORO TECHNIQUE APP

- Developed for **Android** and programmed in **Java** to allow users to implement the Pomodoro Technique
- Automatically switches timer between work, short break, and long break sessions via **State Machine**
- Allows users to pause and reset individual sessions without losing progress

### AUTOMATED STRIKE-BALL BASEBALL SYSTEM

- Successfully designed a prototype system to make judgements about baseball strikes and balls for The Lab at Hustle3
- Utilized **C++ OpenCV Machine Vision** libraries to track baseballs and define a strike-zone within 3D space
- Developed and deployed system on an **Embedded Systems** developer kit running **Ubuntu Linux**

## Skills & Abilities

- Lean Six Sigma Yellow Belt Certified
- Bash, C, C++, Java, Python, Python Machine Learning, RTOS Programming, SQL, Structured Text
- Bilingual – English and Urdu
- GNU/Linux server creation and management
- NI LabVIEW, Multisim, TwinCAT 3, TwinCAT Motion, TwinCAT Vision