



IDP

Internship Development Program

IDP Final Presentation

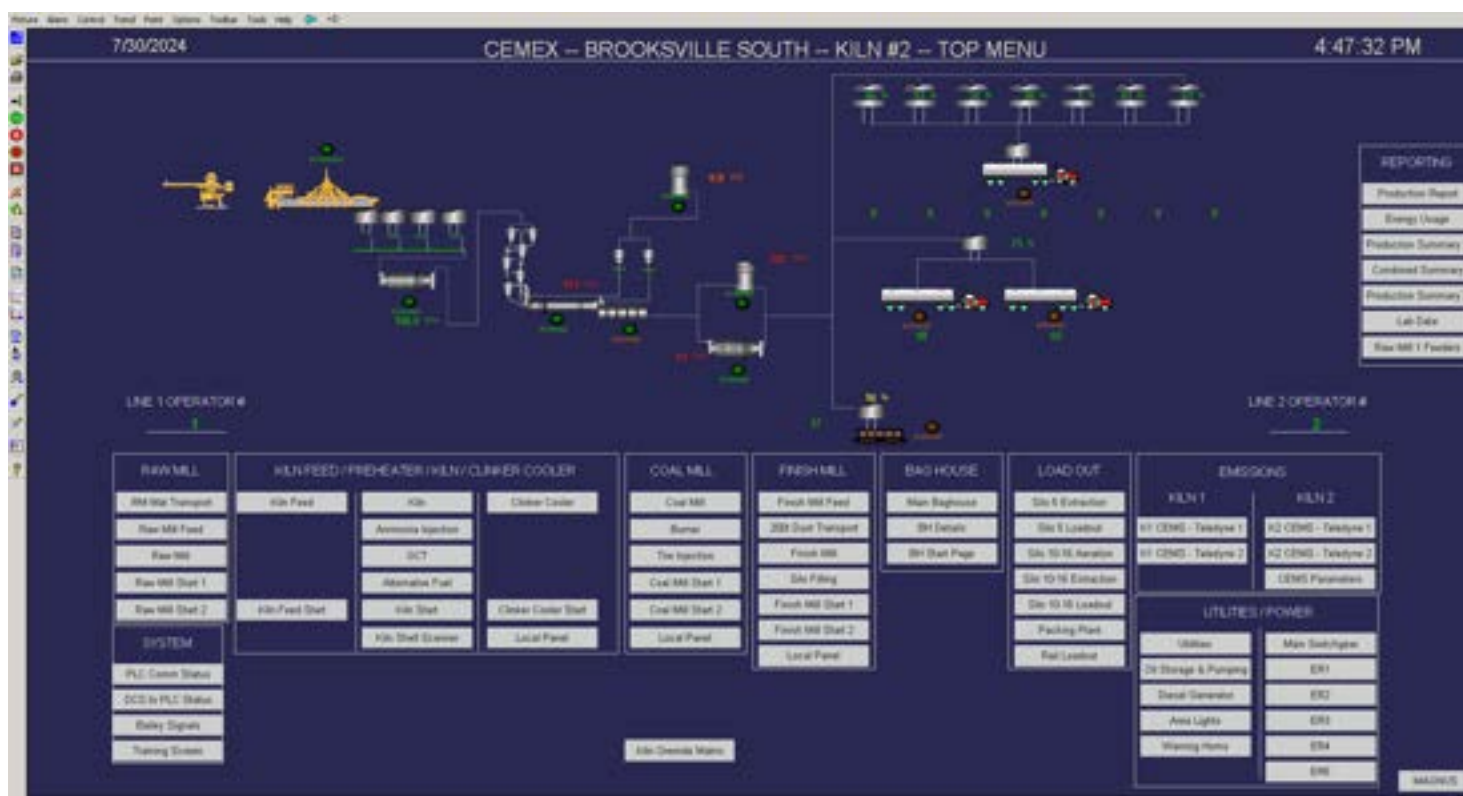


BY: PAUL PATULLO



Agenda

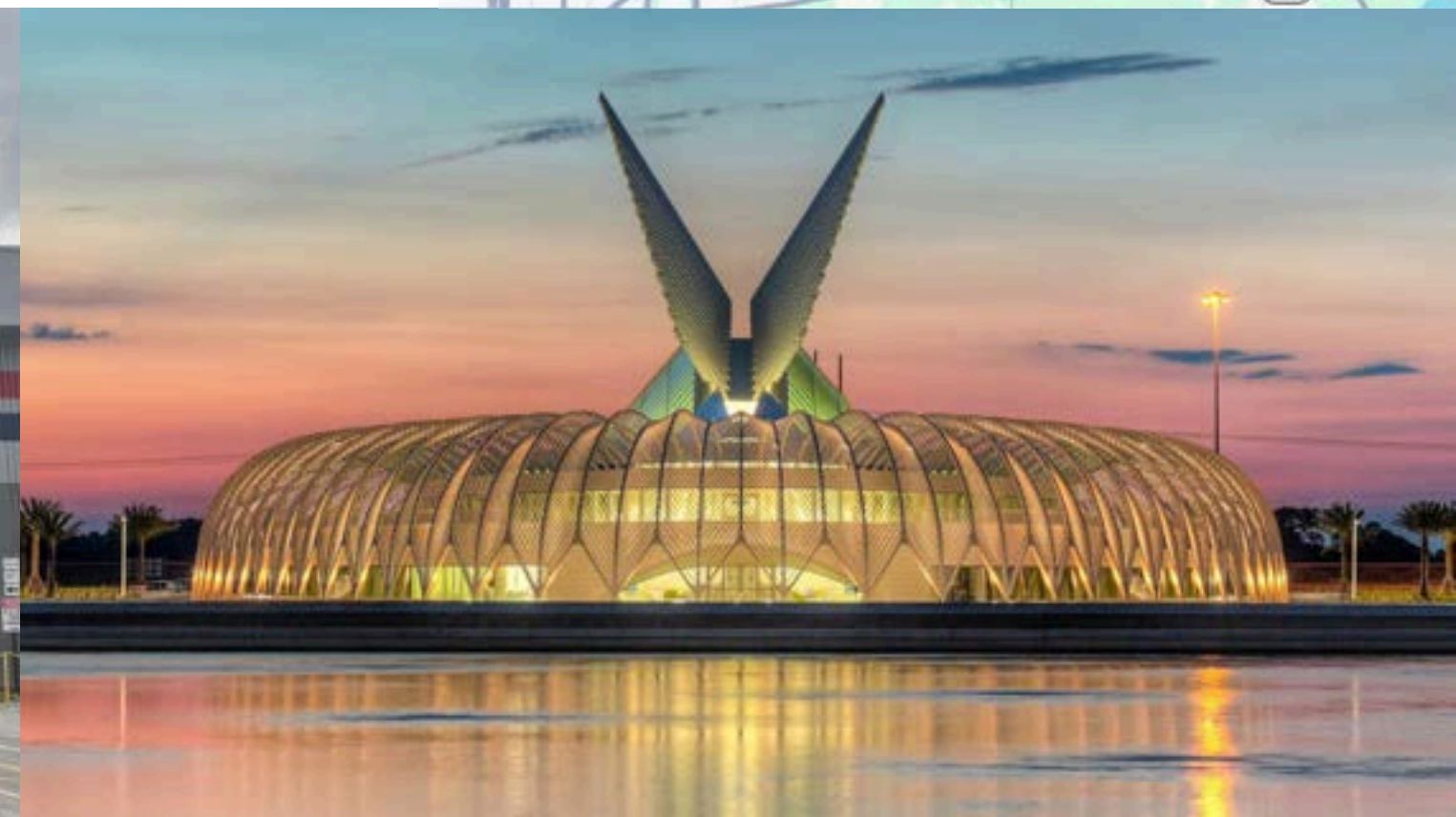
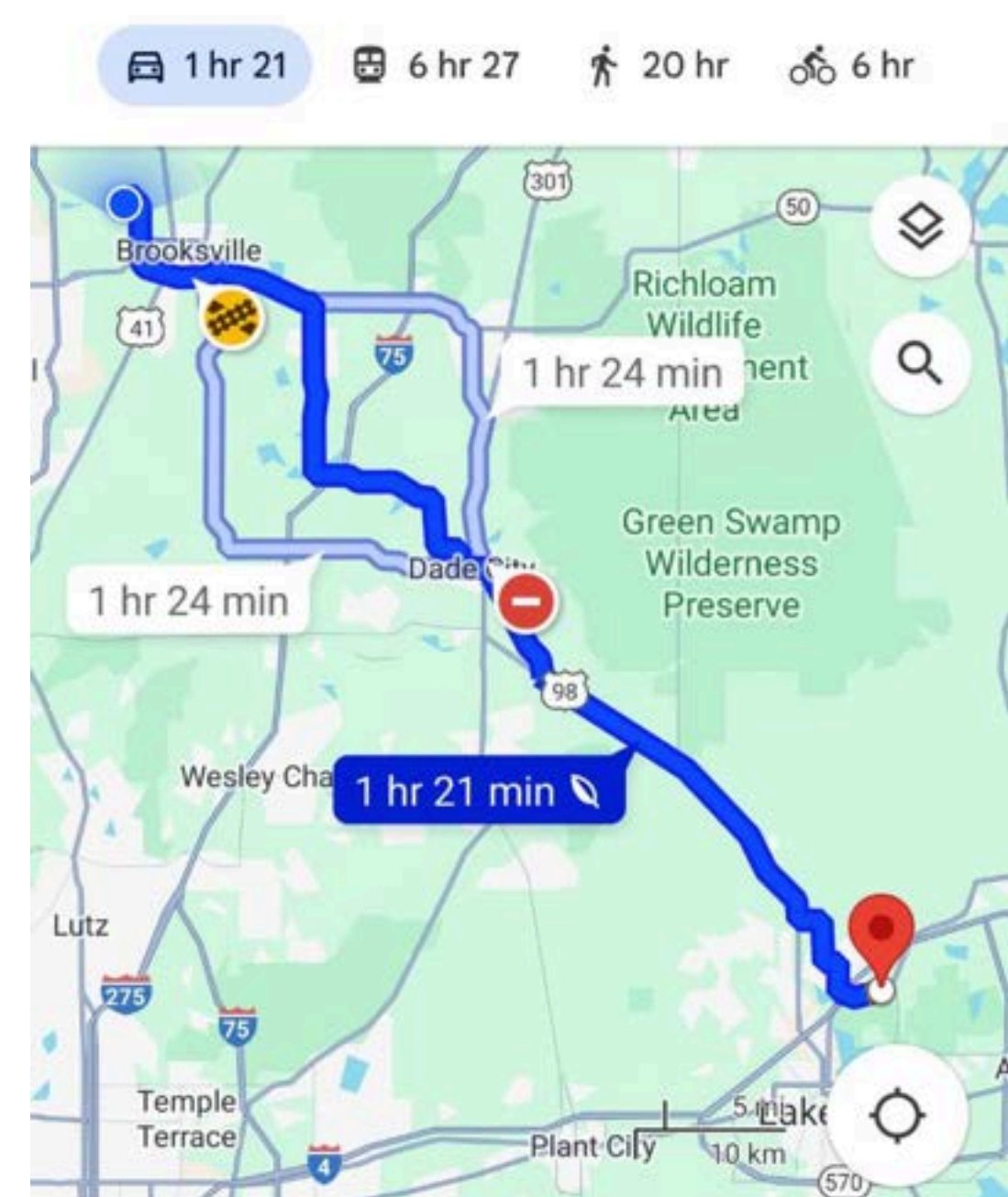
- Bio & Why CEMEX
- Management Team
- Automation Software
- Projects/Tasks
- The Outage
- Operation Blackout
- Maintenance Team
- Key Takeaways





BIO & Why CEMEX

- **University:** Florida Polytechnic University
- **Major:** Bachelor's in Computer Engineering
- **How I heard about Cemex:** Career Fair
- **Position:** Automation Engineer Intern
- **Future Plans:** Work for CEMEX as TDP



Our Management Team



Jose Carlos
Maintenance
Manager



Luis Zapata
Electrical Super
Intendant



Miguel Hernandez
Electrical Super
Intendant



Dranawn Strother
Electrical
Coordinator



Robert Henderson
Electrical
Coordinator



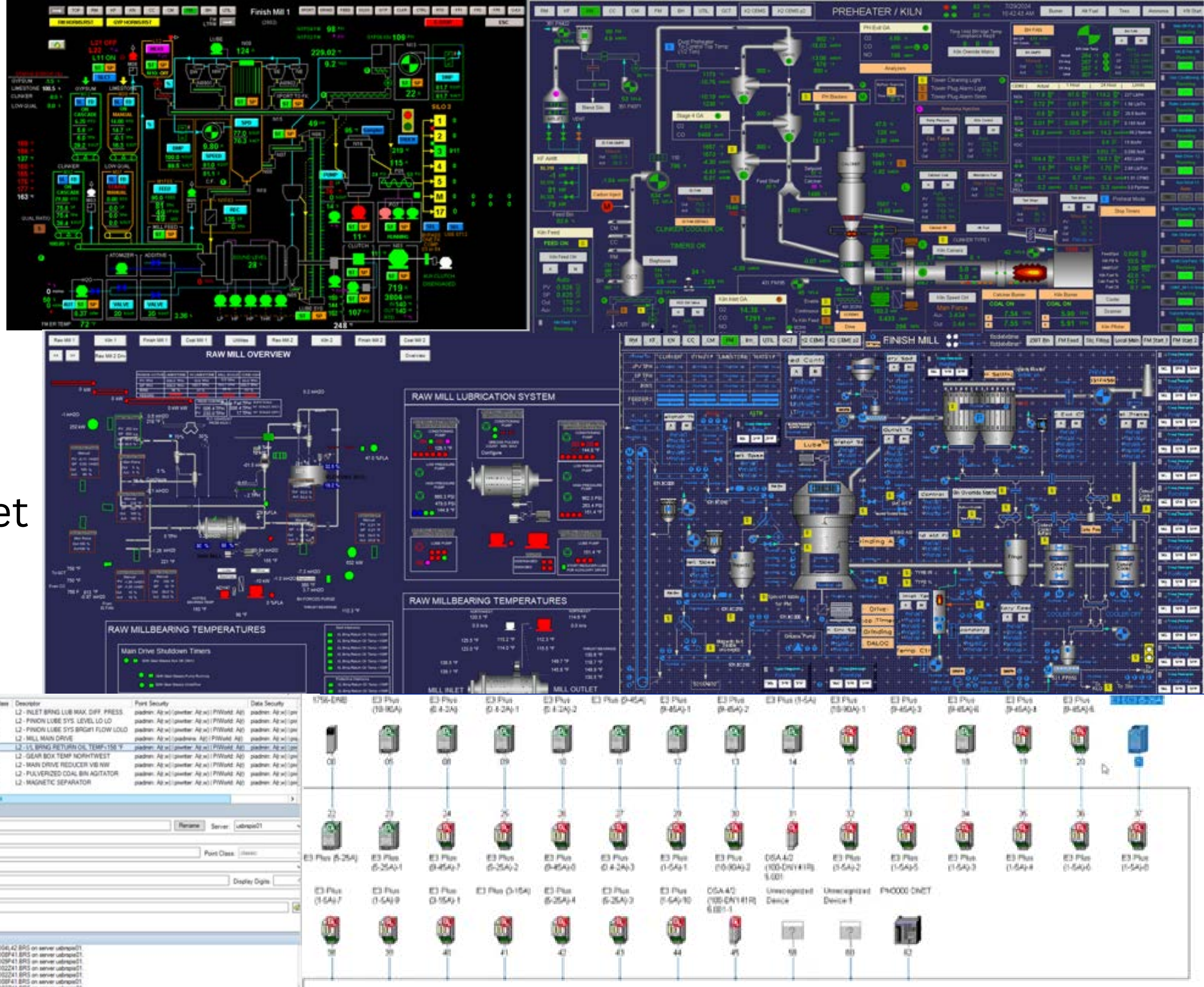
Paola Elizabeth
Automation
Engineer



Bobby Theodosiadis
Electrical
Coordinator

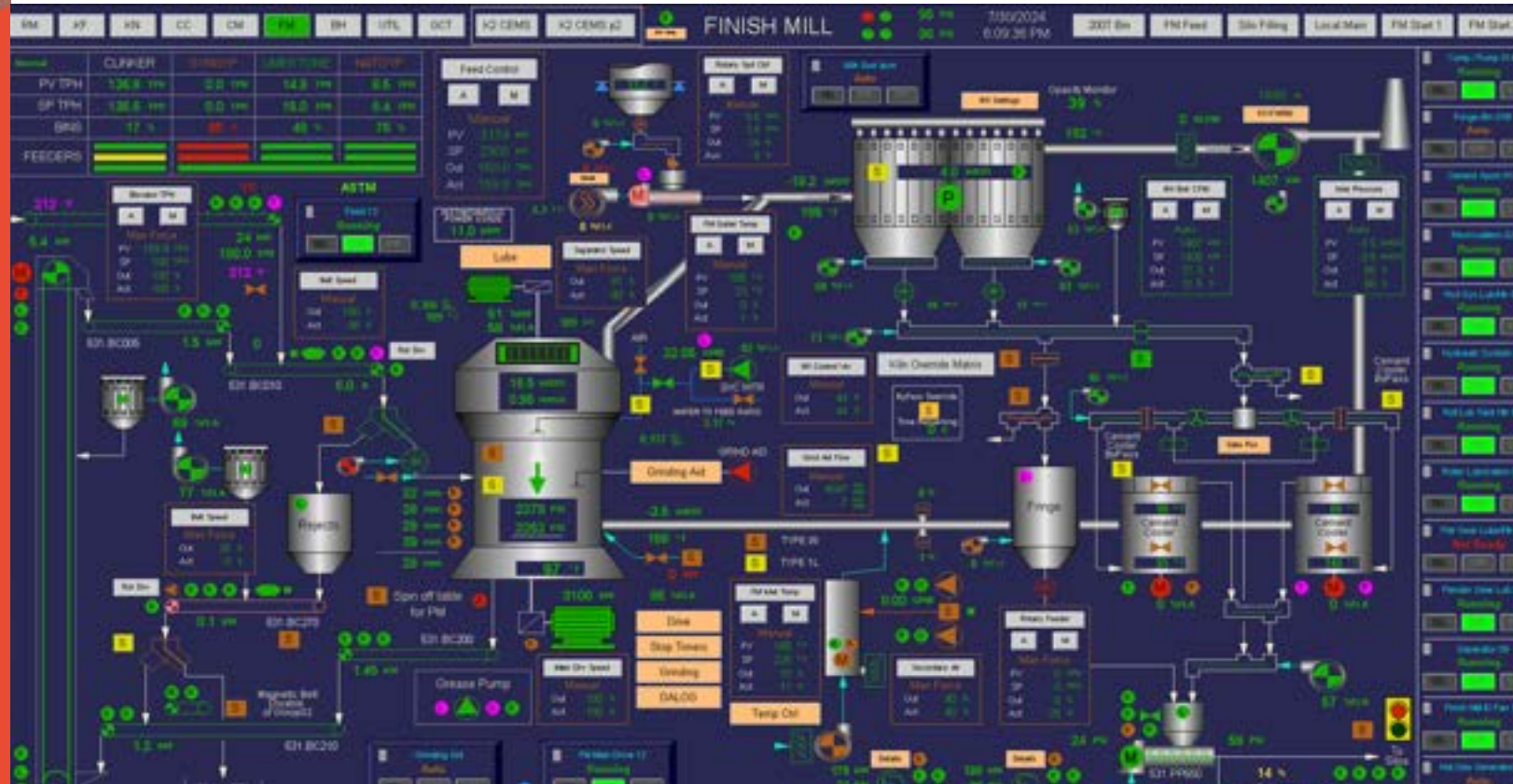
Automation

- Baileys Server
- ECS OpStation
- PI ProcessBook
- ECS Opstation Editor
- PI System Management
- RSNetwork for DeviceNet



Projects/Tasks:

- Program E300 Electronic Overload Relay
- Install Public Announcement System
- Inspect Transformer and MCC Fuses (Blackout)
- ECS OpStation Data Integration to PI ProcessBook
- Coal Pfister & Weigh Feeder Calibration
- HD Camera Credential Manager
- Safety Signage Coordinator
- Create Standard Operating Procedures
- ER & MCC Document Restoration
- SAP Logon
- Create Tam 4 numbers(SAP)
- Manage Kiln Contractors



| FLSMIDTH AUTOMATION | |
|---|---|
| 531FN631M01 AIRSLIDE FAN | |
| Selected | |
| Scanner No. 1 | Node Active |
| Node No. 21 | |
| Status | Trip |
| <input checked="" type="checkbox"/> Trip | <input checked="" type="checkbox"/> Trip Test |
| <input checked="" type="checkbox"/> Trip Warning | <input checked="" type="checkbox"/> Overload |
| <input checked="" type="checkbox"/> Input 1 - Ready | <input checked="" type="checkbox"/> Phase Loss |
| <input checked="" type="checkbox"/> Input 2 - Local Start | <input checked="" type="checkbox"/> Ground Fault |
| <input checked="" type="checkbox"/> Input 3 - Starter Control Power | <input checked="" type="checkbox"/> Stall |
| <input checked="" type="checkbox"/> Input 4 - Return | <input checked="" type="checkbox"/> Jam |
| <input checked="" type="checkbox"/> Output A - Command Fwd | <input checked="" type="checkbox"/> Underload |
| <input checked="" type="checkbox"/> Output B - Command Rev | <input checked="" type="checkbox"/> Winding Temperature |
| <input checked="" type="checkbox"/> Motor Current | <input checked="" type="checkbox"/> Current Imbalance |
| <input checked="" type="checkbox"/> Ground Current | <input checked="" type="checkbox"/> Communication Fault |
| | <input checked="" type="checkbox"/> Communication Idle |
| | <input checked="" type="checkbox"/> Memory Fault |
| | <input checked="" type="checkbox"/> Hardware Fault |

The Outage



Gas Analyzers



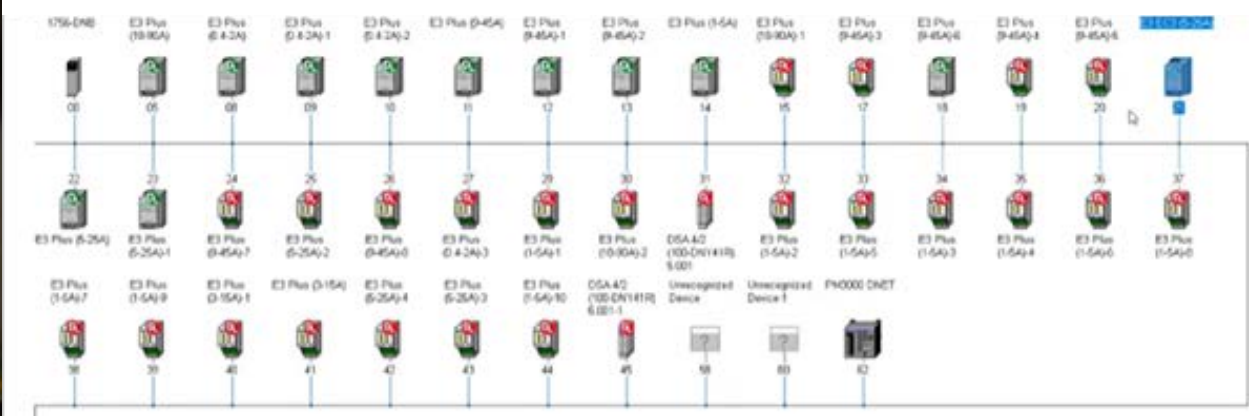
Coal Pfisters



E300 Electronic Overload Relay

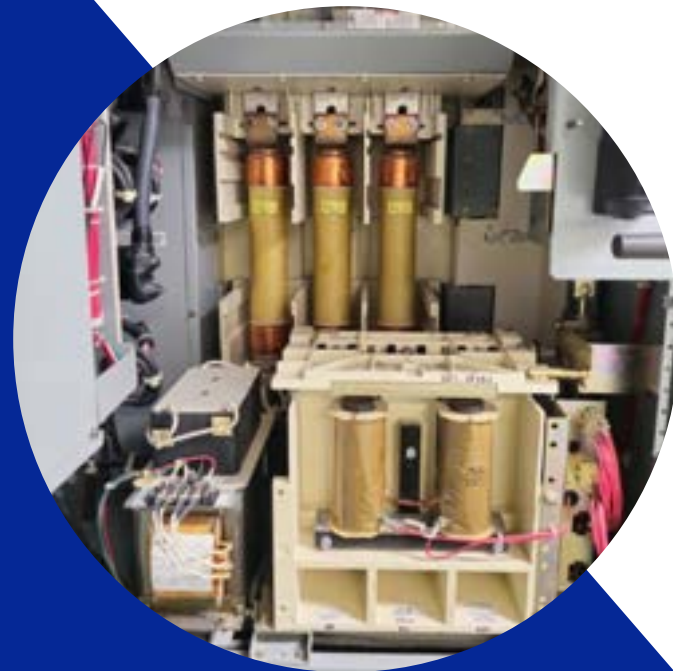


Program Level Sensor



| Parameters | | |
|------------|------------------|----------------------|
| Instance | Parameter Name | Current Value |
| 1 | L1 Current | 14.4 Amps |
| 2 | L2 Current | 14.0 Amps |
| 3 | L3 Current | 14.8 Amps |
| 4 | Average Current | 14.5 Amps |
| 5 | L1 %FLA | 39 % |
| 6 | L2 %FLA | 40 % |
| 7 | L3 %FLA | 42 % |
| 8 | Average %FLA | 41 % |
| 9 | % Therm Utilized | 15 % |
| 10 | IGF Current | 0.09 Amps |
| 11 | Current Imbal | 4 % |
| 12 | OL Time To Trip | 9999 Sec. |
| 13 | OL Time To Reset | 9999 Sec. |
| 14 | Trip Status | XXXXXXXXXXXXXXXXXXXX |
| 15 | Warning Status | XXXXXXXXXXXXXXXXXXXX |
| 16 | Trip Log 0 | XXXXXXXXXXXXXXXXXXXX |
| 17 | Trip Log 1 | XXXXXXXXXXXXXXXXXXXX |
| 18 | Trip Log 2 | XXXXXXXXXXXXXXXXXXXX |
| 19 | Trip Log 3 | XXXXXXXXXXXXXXXXXXXX |
| 20 | Trip Log 4 | XXXXXXXXXXXXXXXXXXXX |
| 21 | Device Status | XXXXXXXX00111010100 |
| 22 | Firmware | 3.006 |
| 23 | Dev Config | XXXXXXXXXXXXXXX111 |
| 24 | Trip Enable | XXXXXXXX0100000110 |
| 25 | Warning Enable | XXXXXXXX0000000000 |
| 26 | Trip Reset | Ready |
| 27 | Single/Three Ph | Three Phase |
| 28 | FLA Setting | 36.0 Amps |
| 29 | Trip Class | 10 |
| 30 | OL/PTC ResetMode | Manual |
| 31 | OL Reset Level | 75 %TCU |

Operation Blackout

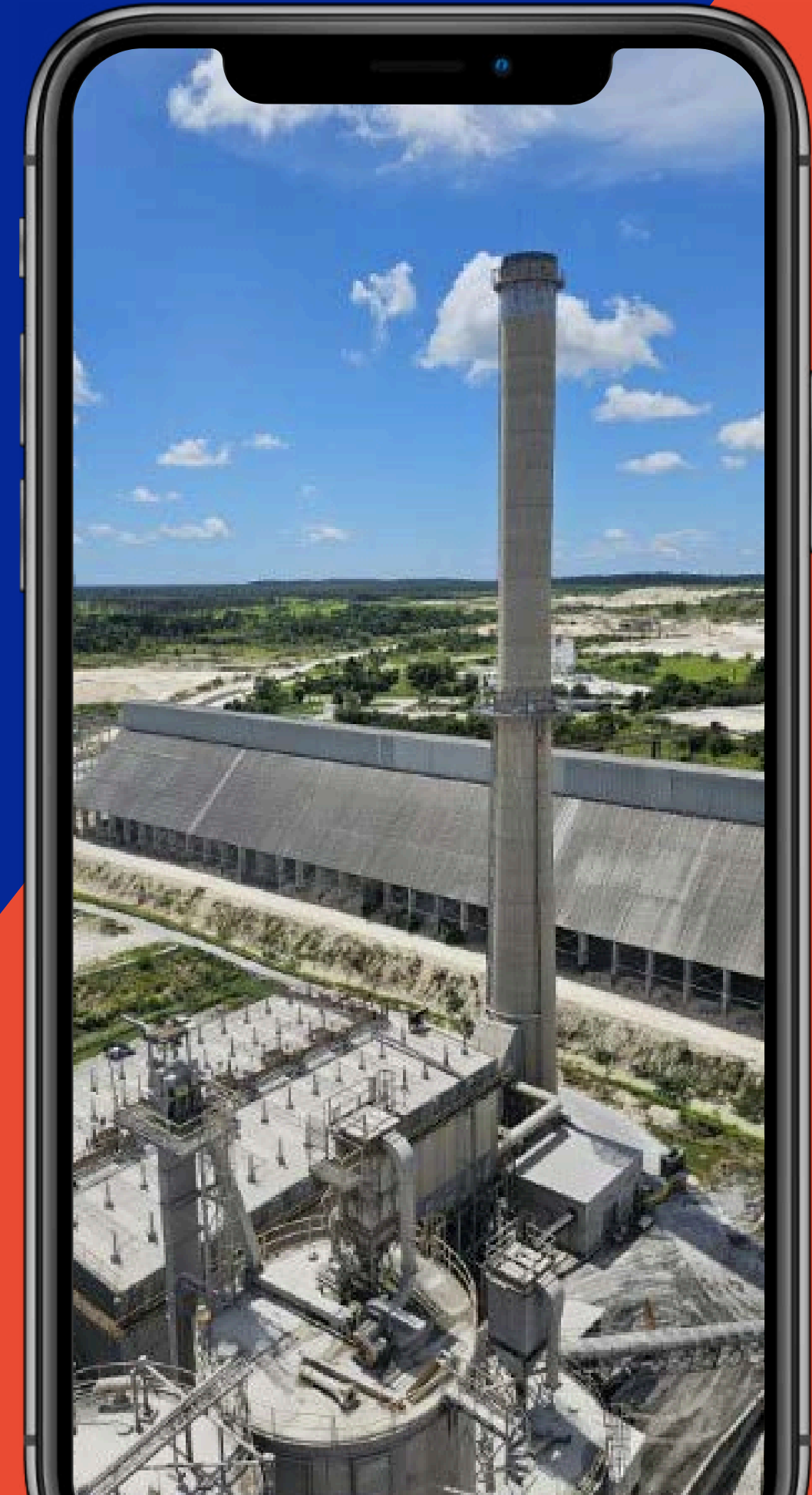
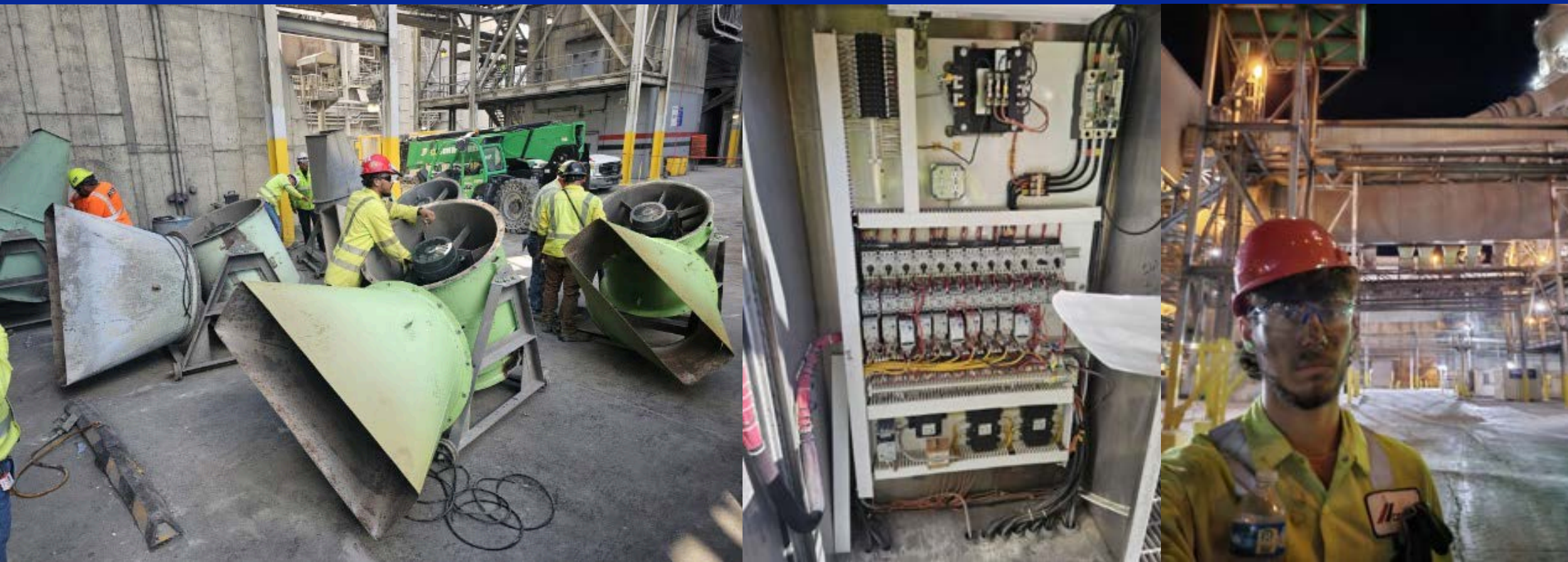


Maintenance Team



Key Takeaways

- Our safety is in our own hands
- Equipment is much larger than perceived
- Work on tasks immediately
- Any task is simple, with proper guidance
- Always have the mindset to work



Thank you!

