**YUXIANG (SEAN) YE** • 347-993-7692 • Seanye86@gmail.com

**Senior Resource Project Engineer** • [LinkedIn](http://www.linkedin.com/in/yuxiang-ye) • Irving, TX 75039

Five years of experience as an Electrical/Control Project Engineer, specializing in process improvement and automation projects in an industrial manufacturing environment. Seeking a challenging position with a company to utilize my experience and knowledge, with opportunities for career growth and advancement. Strengths include Project Management, Electrical Power Systems design, Control Systems design and analysis, and various programming skills. Currently working on my PMP Certification. Bilingual in Chinese and English.

**EDUCATION**

**Bachelor of Science, Electrical Engineering (May 2018)**  University of Texas at Arlington, Arlington, TX

**TECHNICAL SKILLS**

• PLC: ControlLogix, PLC5, SL5 • Project Management • AutoCAD & SolidWorks

• SCADA: Wonderware & PanelView • CAPEX, SAP & Infor-EAM • P-SPICE, Multisim

• AVEVA Historian Server & Client • Lean Six Sigma (Green Belt) • MATLAB, Simulink

• FactoryTalk Asset Centre • Control System Design • Eagle, Altium: PCB Design

• VFD & Servo Drives • Electrical Power System Design • Vision System: Keyence

• Thin Manager & OI Server • Network Management • Thermography (Level 1)

**WORK EXPERIENCE**

**PepsiCo Inc.**, Dallas, TX **March 2021 – Present**

* **Senior Resource Project Engineer**, April 2022 – Present
* Develop and manage the network, electrical and control systems, resource conservation, and safety capital projects worth between $0.25M and $5M include:
  + Network Upgrade – New OT Network, Wonderware Intouch Application, OI Server, Historian Server, Factory Talk Access Centre, Thin Manager, IP Remediation
  + Product Control System Upgrade – Batching System, Main Conveyor System, Process Flow Meters, & Labeler Barcode Database Upgrade
  + Resource Conservation Control System Upgrade – Chiller System, Hot RO System & AHUs
  + Security System Upgrade – Badge Access Control & Security and Process Camera System
  + Infrastructure – Roof Replacement, Concrete Upgrade, Roof Fall Protection
* Prepare all CAPEX documentation including budgets, timeline, engineering design, MOC form, QA checklist, RFP, Scope of Work, execution plan, DCF, etc.
* Monitor system installation, contractor safety, and project outcomes.
* Review and document Power Distribution, Control Circuit, Network Distribution, Control Panel, P&ID, and Sequence of Operation.
* Conduct presentations and formal training for new systems.
* Lead Early Management Pillar and work with cross-functional team to reduce the downtime of the project startup and utilize EM Workbook tools (Success Criteria CQV, FMECA, FAT, etc.).
* Facilitate and organize team meetings to achieve the continuous improvement process.
* Manage plant OT network including HMI Wonderware Intouch, Historian, Access Centre & OI servers.
* Develop individuals and the team to solve mechanical and electrical issues.
* Modify PLC (RS Logix 5000,500&5) & HMI (Wonderware Intouch & FactoryTalk Studio PanelView) programs for process improvement.
* **Controls Engineer**, March 2021 – March 2022
* Provided control and electrical system design support on capital projects
  + CIP Reclaim
  + Central Cooling Tower
  + ZARPAC Production Tracking System
* Completed Kaizen/Green Belt projects to reduce the production downtime
  + Thermal Downtime Reduction
  + Cooldown Process Reduction
  + Bottle Coder System Improvement
  + Rapid Flavor Change Brix Improvement
  + First Bottle Implementation
* Reviewed and tracked the progress of all Loss Analysis projects for FI (Focus Improvement Pillar)
* Provided controls system support to the Maintenance team
* Managed Controls department including work schedule, work tasks completion, training setup, program changes recording document, departmental objective, and End of Year Evaluation
* Programed, repaired, maintained, and designed PLC and HMI systems
* Provided support on process improvement, waste & downtime reduction, electrical safety, and quality controls
* Troubleshot electrical and mechanical equipment malfunctions – valves, motors, pumps, conveyors, etc.
* Calibrated field instrumentations – RTD, Level Transmitter, Conductivity Probes, etc.
* Taught and supported maintenance techs and operators
* Upgraded and programmed lines with new equipment
* Implemented preventive maintenance for electrical equipment
* Investigated the root cause of line breakdown and executed countermeasures

**Saint-Gobain: CertainTeed Corporation**, Ennis, TX **May 2018 – December 2020**

* **Electrical Project Engineer**, June 2019 – December 2020
* **Electrical Engineer Intern**, May 2018 – May 2019
* Developed and managed multiple capital and expense projects with electrical engineering principles to improve process control and efficiency and reduce material cost and waste.
* Developed and managed multiple capital and expense projects with electrical engineering principles to improve process control and efficiency and reduce material cost and waste.
* Completed multiple cost savings projects that reduced delay time and waste on productions.
  + Asphalt Re-circulation System
  + Glass Mat Defect Detection System
  + Dry End Sheet Walk Reduction
  + Cooling Section Automatic Scraper
* Coordinated projects from aspects in concepts, scope creation, budget planning, engineering design, parts ordering with SAP, safety verification, and system installation through test and commission.
* Modified and produced drawings for both Control and Power Systems
* Designed and modified PLC programs (RSLogix 5000 and RSLogix 500).
* Designed and modified HMI programs (Wonderware).
* Assisted maintenance team in troubleshooting electrical equipment failures (industrial sensors, VFDs, motors, PLCs, and vision system)
* Advised teams in troubleshooting industrial network issues.
* Investigated manufacturing issues in manufacturing processes.
* Led several teams and utilized Lean and Six Sigma tools to introduce quality improvement and cost reduction.
* Implemented preventive maintenance for electrical equipment (Thermal scan).
* Created technical reports, system operating procedures, and safety requirements for control systems.
* Trained and presented a new design control system to the maintenance and production team.

**PROFESSIONAL DEVELOPMENT**

Member of the Institute of Electrical and Electronics Engineers (IEEE)

**RELEVANT ACADEMIC PROJECT**

**Raytheon, Sensor Design**

Worked closely with a team to design one PCB with multiple sensors including a PCB layout on Eagle Schematic while building wireless data communication and programming sensors and SDR with Python.