



ALMZA

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ABOUT ALMZA

ALMZA is a consultancy firm that offers consulting services for a broad range of **Industrial Operations**. With deep expertise in **Mechanical, Chemical, and Software Engineering**, as well as **Advanced Materials, Agricultural, Automotive, Plastics, and Specialty Oil Facilities**, we specialize in developing complex **Data Science Solutions** that enable clients to optimize their performance through **Analytics-driven Insights**. Our team has extensive experience managing complex industrial operations, including at Dow Chemical Freeport Operations, the **largest chemical complex** in the **United States**. We prioritize safety and excellence, and our dedication to these values has been recognized with **Dow Chemical's 4 Karat Award**, their highest level of recognition. Our areas of expertise include **LOPA, RCPHA, and LPP**. We completed capital and expense projects focused on process safety, bringing **six plants** into full compliance with government, industry, and business requirements. ALMZA also specializes in complex **Data Science Services**, such as **Predictive Maintenance Programs, Energy-saving Initiatives, and Data-driven Process optimization**. Our Six Sigma certification ensures that our clients receive calculated and tailored solutions to their unique challenges.

Career Highlights

- **\$125M Adhesives Plant Isocyanate Reactor Commissioning, Startup, Production Ramp-up, and Improvement.**
- **Process Safety Compliance for 6 Plants with \$10M annual expense and \$1M capital budget.**
- **Thermoforming Line Commissioning and Startup. Foamed Polypropylene, Rotary Formers, and Research Line.**
- **TS16949 Accreditation for Auto Parts Manufacturer.**

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- A detailed technical diagram of an industrial process, likely a chemical or manufacturing plant. It features a complex network of pipes, tanks, heat exchangers, and machinery. Arrows indicate the flow of materials and energy throughout the system. The diagram is rendered in a light blue color scheme against a darker blue background.
- **Successfully Developed and Implemented Complex Data Science Solutions to optimize production processes and reduce waste, resulting in significant cost savings for the client.**
 - **Led the Development of Energy-Saving Initiatives, resulting in significant reductions in energy consumption and cost savings for the client.**
 - **Developed and Implemented a Predictive Maintenance Program for Industrial Equipment, resulting in Significant Reductions in Downtime and Maintenance Costs for the Client.**

More Highlights



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- **Supported New Permian Basin 13 Tank Battery and Truck Loading and Fuel Station; \$4M.**
- **Relocated Cooling Towers Blow Down Lines to new Outfall; \$250,000.**
- **Upgraded Para-Formaldehyde Power Feeder to Reactor; \$250,000.**
- **Implemented Plant Fall Protection; \$100,000.**
- **Developed and Implemented Operational Procedures for Chemical Manufacturing, Improving Efficiency and Ensuring Compliance with Regulatory Requirements.**

Small-scale Projects

- Small Batch Station
- RCRA Waste Tank & Dike Expansion
- Portable Tank Heating Systems
- Vessel Modifications
- Fill Level Study
- Packaging Header Redesign
- Overfill Protection Implementation
- Filtration Systems Additions
- Relief Systems Upgrades
- Instrumentation Upgrades
- Load Spot Additions
- Railcar Spill Containment
- Alarm Panels Upgrades

More Small-scale Projects

- Flammable Storage Setup
- Storage Racks FIFO
- Administrative Valve Policy
- SIS Documentation
- LOTO Procedures Development and Training
- PPM Schedule for Reliability
- Sheet Thickness Optimization
- Sheet Temperature Sensing System Design
- Thermal Insulation Properties Research
- Silicone Applicator Improvement
- Grinder Pit HC Detection System
- Office Remodeling
- HSPB Buildings Installation

More Small-scale Projects

- Roof Repairs
- Raw Material Recovery
- Environmental Data Reporting
- Partial Totes Consolidation
- E-Commerce and Profile Websites
- Online Marketplaces
- Production Management Systems
- Human Resource Management Systems
- Website Development
- Extrusion Lab Grinder Noise Suppression
- Grinder Pull Roll System Implementation
- Root Cause Investigations (e.g. Batch Gelation, Mill LOPC & others)

STRENGTHEN AI SKILLSET

Develop Value-added AI Solutions using **Deep Neural Networks** and **Transformers**, master **Machine Learning** and **Exploratory Data Analysis**.

ELEVATE OPERATIONAL EXCELLENCE AND PROCESS SAFETY COMPLIANCE

Evaluate key manufacturers' performance metrics and implement best-in-class operations and practices.

CLIENT AND EMPLOYEE SATISFACTION

Implement programs that focus on clients' goals and employee engagement, such as immaculate documentation, employee recognition, feedback sessions, team-building activities, and surveys.

Company Goals for 2023