

ZekaGlobal – Capability Statement

Company Overview

ZekaGlobal is a Palo Alto–based engineering and business intelligence consultancy. We help high-growth industries bridge engineering execution with strategic insights by combining automation expertise, Industry 4.0 technologies, compliance support, and market intelligence. Our team specializes in optimizing production systems, scaling new technologies, and connecting hardware with advanced software, AI, and data-driven decision-making. We partner across energy, pharmaceuticals, medical technology, battery manufacturing, and industrial automation to deliver agile execution and measurable results.

Core Competencies

- **Automation & Controls:** PLCs, robotics, motion systems, and HMIs/SCADA for reliable, compliant, and efficient operations.
- **Business & Market Intelligence:** Power BI dashboards for key performance indicators (OEE, yield, downtime) plus market insights for the U.S., Europe, and China.
- **Embedded Systems & Integration:** Embedded controllers, custom PCBs, and industrial protocols (Modbus, EtherCAT) for seamless operation; test equipment design.
- **AI & Smart Factory Solutions:** AI-enabled automation, predictive analytics, and Industry 4.0 technologies to optimize efficiency and reduce downtime.
- **Compliance & Validation:** Documentation, IQ/OQ/PQ protocols, and guidance aligned with ISO 13485, IEC 60601, and FDA standards.
- **Innovation & Support:** Renewable energy integration, rapid prototyping, clear documentation, and co-development that accelerate adoption and empower teams.

Past Performance

- **Energy & Renewables:** System redesigns and integrations delivering multimillion-dollar savings.
- **Medical Devices:** Automated life-critical technologies with full compliance to FDA and ISO standards.
- **Advanced Manufacturing:** Increased yield and efficiency through redesigned production systems.
- **Higher Education & Training:** University-level curricula in industrial automation and data-driven technologies.
- **AI & Smart Applications:** Built Smart Gym Plus—an AI-powered app using image processing and machine learning.

Differentiators

- **Silicon Valley Advantage:** Based in Palo Alto with access to global innovation networks.
- **Integrated BI + Engineering:** Unique blend of automation, compliance, and market intelligence.
- **Agile Multidisciplinary Team:** Engineers, technicians, and strategists capable of rapid execution.
- **Sector Expertise:** Proven results in pharma, medtech, advanced manufacturing, and energy.
- **Global Perspective:** Experience with U.S., European, and Chinese markets and regulatory frameworks.

Engagement Approach

Discover → Define Goals → Develop Solutions → Implement → Review & Scale

Contact

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