



PROFILE

Automation engineer, with a strong software development background and entrepreneurial spirit. Over 7 years of experience and a track record of success in designing and implementing automation solutions, using a plethora of tools and processes. Highly experienced in utilizing clear communication to collaborate in cross-functional teams to achieve challenging deliverables in a timely and efficient manner. And passionate about modern technology and approaches, and their application to industrial process automation.

CONTACT

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EXCELS AT

- ✓ Communication;
- ✓ Problem solving;
- ✓ Work ethics;
- ✓ Creative thinking;
- ✓ Team building and collaborative success

ALEX YANG

Automation Engineer

WORK HISTORY

Skellig Automation, August 2019 to Present, Oceanside, CA

Highlights: Staff augmentation in the pharmaceutical industry, utilizing S88 principle and GMP process; with projects involving new product introduction, code improvement and deployment; full automation development cycle, from P&ID to commissioning and qualification.

Aztec Technologies, February 2018 to July 2019, Framingham, MA

Highlights: Staff augmentation in pharmaceutical manufacturing; projects on new equipment introduction; code improvement and redesign; operation support, troubleshooting, deviation analysis and resolution.

Nexen Energy, May 2013 to February 2015, Fort McMurray, AB

Highlights: Operation support in the energy industry; collaborating with engineers, operators, and maintenance personnel software, hardware and instrumentation troubleshooting; performing root cause analysis, and implementing changes with minimal production impact;

TECHNICAL SKILLS

Automation Engineering | Specializing in DeltaV DCS, SIS

- Control strategy;
- HMI graphics;
- Asset management system;
- Various industrial communication protocols:
Foundation Fieldbus; Profibus; Conventional I/O; HART and other DeltaV hardware supported protocols. With additions to pulling (OPC) and event trigger-based (MQTT, websocket) protocols; as well as low level electronics protocols (bits, words, page read/write).

Software Engineering | Alumni of Harvard Extension School Coding Bootcamp

- Primary programming language in JavaScript, its variants, frameworks, and libraries;
- Advanced expertise (most relevant) in
 - JavaScript; Python; MySQL/MongoDB (both relational and document based) databases; HTML/CSS; VBA;
- In depth experience in (=>) dozen programming languages, with applications ranging from web/mobile development, database, data science, cloud applications, firmware design;
- Software architecture, design patterns, coding philosophy and guidelines.

Summary:

1. Extensive knowledge in control strategy design, implementation and troubleshooting;
2. Leveraging software engineering principle and programming paradigm to create reusable code base, in order to drastically improve maintainability and future project efficiency, directly resulting in significant cost savings;
3. Using innovative solution and, transferrable, cross-industry project management approach to drive business and operational results.