VALERY NGUYEN

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CAREER HIGHLIGHTS

- Over 7 years of experience in the energy industry, including 4+ years working on automation systems.
- Demonstrated success in developing, modifying, and troubleshooting Siemens Programmable Logic Controller (PLC) programs integrating motion controllers, sensors, and vision systems.
- Performed software tests utilizing Siemens STEP 7 and WinCC Open Architecture (HMI), and delivered four complete programs for commissioning.
- Produced and maintained detailed and accurate documentation supporting each control system project.
- Effective interpersonal communication skills to interface with other teams and meet project deadlines.

TECHNICAL SKILLS / SPECIALTIES

- **Control System Design:** Siemens SIMATIC STEP 7, WinCC Open Architecture
- **Mechanical Design and Analysis**: SolidWorks, ANSYS Mechanical APDL and Workbench
- **Numerical Computing:** PTC Mathcad, MATLAB

EXPERIENCE

Software Automation Engineer II – Orano USA Oct 2011 – Dec 2014 / May 2017 – Present

- Developed, troubleshooted, and executed PLC code utilizing Siemens STEP 7, Ladder Logic, Grafcets, Function Blocks, and Structured Text Language.
- Designed and implemented software solutions for nuclear fuel manufacturing material handling, part tracking, and data storage and retrieval.
- Lead and conducted PLC software tests on Siemens PLC (SIMATIC S7-400) test platform using Siemens STEP 7 and WinCC Open Architecture (SCADA), and delivered four complete software programs for commissioning.
- Analyzed and interpreted mechanical drawings, machine operation documentation, and company standard programming requirements to construct and maintain comprehensive software design documents and test specifications.
- Collaborated with Design Engineers, Responsible Engineers, and Startup Engineers to assist in various modifications, optimizations, and software validation.

Structural Engineer II – Orano USA Jan 2015 – Apr 2017

- Performed structural analysis on support structures for automation systems' hardware using ANSYS Mechanical APDL and ANSYS Workbench to verify and establish structural qualification.
- Executed over 60+ evaluations of support frames, anchors, and welds to ensure structural integrity using ANSI/AISC N690-94 standard and AWS D1.6:1999 code.
- Transmitted accelerations, reactions, and deflections to interfacing construction and mechanical organizations to support 18+ field changes and design improvements.

EDUCATION

University of California, Los Angeles (UCLA) June 2011

B.S. in Mechanical Engineering

LANGUAGES

French, Spanish, Vietnamese