

[0182 "Software Engineer 2"]

JACK JEFFERSON
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A versatile engineer with more than 25 years of diverse experience in Programmable Logic Controls (PLC), Human Machine Interface (HMI) and electrical maintenance of automated control systems.

Expertise includes design engineering; installing, debugging and upgrading systems; training operators; and customer support. Served the paper, waste, oil packaging, wood, steel, electrical and electronic industries working with Siemens, Allen-Bradley and Modicon controllers. HMI systems include WINCC and WonderWare software.

EXPERIENCE

XYZ Technologies, Inc., Napa Valley, California

1995-2007

Software Engineer

Designed, engineered and wrote custom programs for industrial applications on new, upgraded and existing manufacturing equipment with batch and automation processes for a manufacturer of precision automated controls used in the petrochemical industry by major oil refineries across the country.

- Worked closely with sales and process engineers, maintenance technicians, production staff and clients.
- Authored a control program for a blending operation for Exxon's existing Santa Fe Springs production facility. This was designed using simulators prior to installation in the field.
- Programs were written for Siemens Programmable Logic Control (PLC) Simatic S7-300 with PCS7 software. Protocols included SCL, WINCC V5.0, Batch flexible and C Language in Windows NT environment.

Loveseat Electric Company, Stockton, California

1985-1995

Application Engineer

Loveseat Electric is a systems integrator that provides automated engineering for manufacturers installing new, upgrading and maintaining control systems. Clients included Peterson Engineering, Nebraska Oil and the City of Phoenix.

- Coordinated the work of consultants and engineering firms on design and engineering for instrument specifications, hardware and software requirements, wiring drawings and installation.
- Worked on a variety of projects that included planning, site selection and detail design, cable sizing, control systems and PLC applications, Supervision Control and Data Acquisition (SCADA), protective relaying, shop drawing review, equipment specification, testing and commissioning.

Major Projects: Redesigned the layout and installed the electrical circuits of the Coldwater Canyon Water Network, including 37 pump stations. Designed and programmed the production line for a major cosmetic company. Programmed and built the control panel for a nuclear plant in Germany for decontaminating radioactive water. Constructed electrical panels and reprogrammed a storage system for Six Flags Magic Mountain.

EDUCATION

New York University, New York City, New York

Bachelor of Science, Electrical Engineering

Additional Training:

PCS7 Control system and programming
Modicon PLC H/W and programming with Modsoft Ladder

COMPUTER APPLICATIONS

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Step 7 (PCS7 system), Step 5 (PCPM system), Modsoft, RSLogic, Protool, Panel Mate and WINCC.