



David Ung

Senior Control Systems Engineer

EXPERIENCE

Twenty five years experience in project management, detailed design, and construction supervision of large industrial, pharmaceutical, medical diagnostic manufacturing and food service projects. Programmable logic controller systems, operator interface systems and instrumentation specification, design, installation and validation experience.

FIELDS OF EXPERIENCE

- Chemical Process Industry
- Pharmaceutical
- GMP Requirements
- CIP Cleaning
- S88 Batch Control
- Food Processing
- Programmable Logic Control
- Operator Interface
- Validation
- Plant Engineering/Manufacturing

WORK HISTORY

Senior Manufacturing Engineer, Inverness Medical (formerly Hemosense and Cholestech)

Responsible for the support of the existing consumable production lines and the design/build and validation of the new machine processes. Technical expert of the existing equipment such as the BioDot dispensers and the A/B and Mitsubishi PLCs.

Control Systems Engineer, Nektar Therapeutics

Supporting manufacturing production and maintenance by providing technical expertise for the clinical and commercial areas. Expertise in software and control systems along with support in process, projects and validation.

Worked on the Title 21 CFR Part 11 project for the Niro spray dryers, RS Batch for the commercial spray drying, CIP and SIP operations, AB RSLogix programming for the spray drying process, OSI PI historian for data acquisition, validation of Klockner blister machine using an Omron PLC, an AB SLC 5/04 and an AB CVIM vision system. Familiarity with Allen-Bradley SLC 500, 5 series and ControlLogix.

Process Engineering Manager, First Medical (part of Sigma-Aldrich Corp.)

Supported the existing consumable production lines and the design/build of the new automated process. FMI produces a point-of-care analyzer to diagnose Acute Coronary Syndrome (ACS). I was also responsible for process validations for FDA validation and was the manager of the maintenance department.

Principal Engineer, Roche Diagnostics

Lead technical engineer at the Roche Diagnostics - Fremont facility that produces blood coagulation monitors and cartridges. Project manager responsible for producing the next generation coagulation testing cartridge line that more than doubled the production capacity. Equipment used includes ultrasonic welders, multiple vision systems, multiple Allen-Bradley 5/40E PLCs, multiple operator interfaces, leak testers, reagent dispensing, oven control, foil packager, motion controllers and high speed material handling. Intimately involved in the validation of the new equipment. Also responsible for improving and maintaining the existing coagulation line.

Lead Controls System Engineer, ESII-Engineered Systems Integration

Lead supervisor of the design, build, installation, and field start-up of SCADA - PLC - DCS control systems for plant automation. This includes project coordination and management, design specifications, control descriptions, wiring diagrams, loop drawings, instrumentation specification sheets, panel layouts, fabrication specifications, PLC programming, documentation, field start-up and installation and training. PLC experience in all the major PLC manufacturers, including Allen Bradley, Modicon, Texas Instruments, General Electric, Square D, etc. Operator interface experience in Wonderware, DMACS, AIMAX, Spectrum, ControlView, PanelMate, Metra, etc.

Applications Engineer/QA Manager, Metra Instruments Inc.

Specialist on large project installation for industrial automation. Expert on all major PLCs in customer support. Advanced technical support given to customers regarding Metra Operator Interface Products. Responsible for the total quality management of Metra's products from concept through product release and production which included design qualification, hardware and software testing, production support, and personnel management.

Project Engineer, Hills Brothers/MJB Coffee

Responsible for the design, development, and implementation of capital projects designed to modernize the plant facilities. Projects include addition of vacuum brick pack for modern packaging, electrical and software design of all computer control systems and addition of new box forming packaging line.

Process/Project Engineer, Stauffer Chemical Company

Worked in a sulfuric acid plant which regenerates waste acids produced primarily from petroleum companies. Total project responsibility on large capital projects.

EDUCATION

California Polytechnic University, Pomona. BS in Chemical Engineering.

SPECIAL SKILLS AND INTERESTS

-Management Action Program.