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Top Skills

Engineering

Manufacturing

Process Engineering

Charles Fuller

The best way to predict the future is to design and BUILD it!

Raleigh-Durham, North Carolina Area

Summary

Value Statement.

A successful engineering manager, principal engineer, program manager, and subject matter expert in GMP manufacturing, microgrid renewable energy production, automation, new product development, plant engineering, power distribution, process engineering, biopharm engineering, validation, corporate engineering, process optimization, plant production, operational excellence, and electrical safety. Experienced in CAPEX, construction management, and project management. Over 30 signed letters of recommendation since 2008, actively engaged in engineering operations in industry since 1988, and a 30-year member of IEEE.

Experience

FWD Innovations Corporation

Founder/Principal Engineering Consultant

May 2019 - Present

San Diego, San Francisco, and Raleigh.

Utilizing a 30 year successful track record of CAPEX development and GMP production deployment, I am independently consulting for clients in GMP, Validation, and Energy production.

Genentech

Senior Engineer/Program Manager

August 2015 - April 2019 (3 years 9 months)

Greater San Diego Area

- Subject Matter Expert in microgrid Energy Production, Power Distribution, Automation, BMS, SIS, and OEE
- System architect over the 3.8 MW Tesla solar array and 2.5 MW Bloom Energy fuel cell

- Supervising engineer over Solar City, Tesla, and Bloom Energy in the design, build, and hands on commissioning of an aggregate of 6.3 MW of onsite 12 KV electricity production
- Design and implement Electrical Business Practice for site-wide electrical circuit management
- Develop and implement CAPEX projects
- Lead cross functional capital project engineering and execution teams
- Make presentations to the campus executive leadership team driving CAPEX
- Optimize Utility and Process Systems
- Lead Root Cause Analysis, Failure Mode Effects Analysis, and Validation
- Support Operational Excellence in the creation and delivery of Kaizen events
- Develop and mentor junior talent
- Collaborate with EH&S on the electrical safety program
- Provide project management, construction management, and design engineering supervision/support
- Trackwise CAPA experience
- SAP experience
- Develop GAMP5 documentation for capital projects as well as review/ approve vendor supplied documentation (URS, FS, HDS, SDS, and IQ/OQ/ FAT/SAT test plans and execution)
- Sustain 100% Availability Factor of reliable power to control systems on GMP equipment utilized in fermentation, cell separation, recovery, filtration, CIP, and clean utilities
- Proficiency with standard office software applications, including MS Word, MS Excel, MS Project, MS Power Point, MS Access

Process Industries Corporation

Principal Engineer

May 2011 - September 2015 (4 years 5 months)

- Supervise teams in product development, manufacturing, validation, commissioning of custom process systems for cGMP regulated industries
- Project Management through entire project lifecycle
- Principal Software Architect on Automation, Controls, and Historian/OEE/ MES interface
- Senior PLC/HMI automation development with RS-Logix 5000 and FactoryTalk View ME/SE
- Senior P&ID development in collaboration with client R&D and engineering
- Senior electrical distributed controls design with AutoCad
- Senior power distribution design, including arc flash analysis and remediation
- Senior CAD work in AutoCad

- cGMP documentation including URS, FS, HDS, SDS, FAT, SAT, IQ, and OQ
- Numerous Process Optimization achievements, including reduction of CIP cycle times and chemical usage, returning 8 hours a week to production, at a top line revenue increase of \$190,000 per hour, in 24/7 GMP high speed distilled spirit batching and bottling operations
- Proficient in SDLC methodologies
- Proficient in technical “hands on” troubleshooting and optimization
- Proficient in setting agendas, leading and aligning teams, and delivering targeted results

The ESCO Group

Account Manager

September 2009 - May 2011 (1 year 9 months)

- Dedicated leadership, development, and supervision of fourteen engineering colleagues
- Year over year professional services engineering and software development staff growth of 30%
- Senior automation engineering deploying Controllogix/FactoryTalk View SE in high volume GMP food production
- Successful team building spanning marketing, sales, engineering, software development, product development, quality management, and accounting
- Primary interface to clients from proposal development through production commissioning

Fuller Industries Inc.

Principal Process Automation Engineer

February 1997 - September 2009 (12 years 8 months)

- High volume product development and production engineering in cGMP regulated industries
- Senior technical skills including: RS-LOGIX 5, 500, 5000 programming, FactoryTalk View ME/SE, RSView32, PanelView, Wonderware, Automation Direct, Simatic S5/S7, SQL, AutoCad, Electrical, Process, and MES Design, Microsoft Office, Project, Expression Web, Visual Studio, Dynamics, and Sharepoint Designer
- Extensive library of software designs, equipment design/build projects, and control systems for validated and non-validated systems
- Cross Functional Collaboration with client R&D and Corporate teams
- Greenfield Site Project and Construction Management
- GMP Aseptic Production systems in service have produced over 500 million sold units

- Six Sigma Automotive Production systems designed in service have produced over 50 million sold units
- GMP High purity water systems designed in service have produced over 1 trillion gallons
- Combustion systems designed in service have produced over 10 million sold units of treated product.

US Filter (Evoqua Water Technologies)

Senior Electrical Engineer

December 1993 - February 1997 (3 years 3 months)

- Furnished the process design, system programming, electrical controls design, and commissioning support for:
 - High purity water treatment system for a 500 MW combined cycle power plant in Barranquilla, Colombia
 - High purity water treatment for an automotive assembly plant in Pontiac, Michigan
 - High purity water for injection plants in Beijing, China and Hanoi, Vietnam
 - High purity municipal desalination treatment facility in Shoaiba, Saudi Arabia
 - Unit operations include softeners, filters, reverse osmosis, 2 bed cation-anion, mixed bed, and EDI

Del Monte Foods, Inc.

Plant Electrical Engineer

October 1988 - December 1993 (5 years 3 months)

Walnut Creek, CA

- Furnished control system engineering, system programming and installation contractor supervision for a new aseptic production plant, to support a national rollout
- Furnished power distribution engineering and trade supervision to consolidate plant production equipment from two facilities into one. Engineering including equipment field survey, one line power diagrams, substation calculations, feeder calculations, motor control center schedules, and contractor bid package
- Creation of a regional technology training center and training of maintenance personnel in supporting automation system technology
- Completion of several control systems automation projects including high speed filling, canning, sterilization, batching, quality grading and Clean-In-Place (CIP)
- Supervision of twelve maintenance personnel and support of nine production facilities

Education

Northern Illinois University

B.S., Engineering Technology · (1990 - 1992)

Rock Valley College

Associate of Arts and Sciences - AAS, Industrial Electronics Technology/
Technician · (1984 - 1987)

Rock Valley College

A.S., General Studies · (1984 - 1987)