

PROFESSIONAL RESUME

DANIEL F. HENDERSON, P.E.

Registered, State of Colorado

5 Endeavor Lane, Pueblo, CO 81001
719/545-6058(H)
719/543-7722(W)

License No. 26079

EXPERIENCE - 1985 to Present

Founded **Engineered Systems Inc.**, also called "ESI", which is currently located at 1101 N. Greenwood Street in Pueblo, Colorado. The firm began doing business as a corporation on April 1, 1985. ESI provides electrical and mechanical engineering services to design, maintain, upgrade, systems and structures to the commercial, public, utility, steel, and general industries. The firm also provides the services of experienced engineers to keep customer's equipment in the best possible condition to maintain their profitability at its peak.. Upgrading includes modernization of equipment by addition and installation of new hardware or software, consulting studies, design of upgrades for customer installation, and software programming. ESI provides electrical design and testing services for commercial and industrial plant power systems and controls for power generation. (*See website at [www. esipb.com](http://www.esipb.com) for additional information on Engineered Systems Inc.*).

Highlights of Specific Engineering Experience from 1985 to Present:

Colorado City Waste Water Treatment Plant (engineering of power and control)	Clyde B. Young
Chiller Starter Test Panel for Prototype (engineer, design, build, program, install, start-up)	<i>Trane International Charmes, France</i>
Pueblo Chemical Depot Water Treatment Plant Upgrade (engineering of power and control)	Fox Inviornental
Pueblo Airport Lighting Control Upgrade (engineer, design, build, program, install, start-up)	City of Pueblo
Bowen Mansion Remodel for Pueblo County (engineering of electrical system for building on Historical Register)	<i>County of Pueblo</i>
Swallows Charter School (engineering of electrical system)	<i>Link Engineering</i>
Lighting at Runyon Baseball Field (design, oversight)	<i>County of Pueblo</i>
Electrical Layout Numerous Commercial Buildings and Parking Lots (design)	<i>Various</i>
Process Control/Water Treatment Upgrade (engineering)	<i>Rust Engineering, Pueblo</i>
CF&I Steel, L.P. Bar Mill Upgrade (design, build, test)	<i>Pueblo Depot Activity Morgan Construction, Worcester, MA</i>
Network Supervisory System Upgrade (design, program, test)	<i>National Institute of Standards & Technology</i>

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EXPERIENCE - 1985 to Present (Continued)Chiller Starter Test Panel
(engineer, design, build, program, install)*Eaton Corporation, Pueblo*Templeton Gap Project
(checkout of motor starter)*Ultrasystems, Colorado Springs*Chiller Starter Test Panel
(design, build, test)*Cutler-Hammer, Doraville, GA*Sizing Mill Roll Gap Adjustment Panel
(design, build, test)*CF&I Steel, Pueblo*Synhytech Project Pueblo
(engineering for methane plant)*Ultrasystems, Pueblo*Plug Mill Pulpit Automation
(design, drawings, installation)*CF&I Steel, Pueblo*Electronic Charge Ignitor Control
(design, build, and test)*Amax, Empire, CO*Fire Exit Plan Layout
(including all instrumentation
and machinery)*McDonnell Douglas, Pueblo*PLC-Based Servo Control
(programming to add one more axis
to existing control)*Martin Marietta, Denver*Ultrasonic Control for Rail Testing
(engineer & design new control, and
program in 'C' language)*CF&I Steel, Pueblo*Power System for Gravel Mine
(engineering & installation
for new mining site)*Valco, Pueblo*

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EXPERIENCE - 1985 to Present (Continued)

Mine Hoist Control Revamp
 (replace obsolete equipment with new
 computer control, and program in 'C'
 language)

Amax, Empire, CO

Electrical Layout
 (electrical design, checkout and
 panel board layout for warehouses
 in Colorado Springs, Aurora, and
 Arvada)

PACE Warehouses, Colorado

Titan Rocket Panel Cleaning Control
 (design and installation)

Martin Marietta, Denver

Plant Expansion
 (electrical and instrumentation design
 and bid specifications)

B.F. Goodrich, Pueblo

Electrical Layout
 (for local restaurants & city projects)

Abel Engineering, Pueblo

Portable Gravel Crusher
 (power system and control design)

*Valco, Rocky Ford*EXPERIENCE - Prior to 1985

GENERAL ELECTRIC COMPANY

1981 - 1985 Manager of Custom Automation Services in Pueblo. Developed and supervised the construction and installation of energy management controls for industries throughout the United States including a PLC-based servo control for eleven axes at Martin Marietta Aerospace in Denver, CO.

1975 - 1981 Area Engineer in Pueblo, Colorado. Responsible for Southern half of Colorado for General Electric Company. Installation of new rail mill controls at CF&I Steel. Developed microprocessor and computer controls for industrial applications. Supervised four engineers on various projects.

1968 - 1975 Field Engineer in Denver, Colorado. Worked on numerous general industry projects, supervising the installation of mine hoists and steel mill controls, X-Ray pumps, substations for utilities, including switchgear, breakers, and transformers:

Installation and checkout of two 1800HP Nordberg Hoist Systems in Colorado;

Installation and checkout of two 3500HP Nordberg hoists in Arizona; 9/00

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1968 - 1975 (continued) Checkout and test of Rod Mill and Bar Mill at CF&I Steel Corporation in Pueblo;

Lead Engineer for installation of Electric Arc Furnace at CF&I Steel Corporation in Pueblo;

Development and instruction of General Electric Courses:

- a) Electrical Maintenance Seminar;
- b) Electronic & Electrical Controls for Electric Arc Furnace;

Applying microprocessors to upgrade existing controls and/or implementing new control systems.

Member of G.E. Installation and Service Engineering Instrument Committee for evaluation of all instrumentation used by the department.

1967 - 1968 Field Engineer with General Electric Company of Schenectady, New York. Installation and checkout of Hot Strip Mill for U.S. Steel in Gary, Indiana. Also attended three month Industrial Electrical Training Course by G.E. at Schenectady, New York.

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