

**DOUGLAS D. ANDERSON, PE**  
811 West Main St.  
Middleville, Michigan 49333  
269-795-6013

**ENGINEERING MANAGEMENT/CONSULTANT**

**Engineering/Operations  
Executive**

**Project & Program  
Management**

**Sustainable Process  
Improvement**

- Demonstrated management leader in operations who thrives on working effectively and efficiently under tight deadlines, large volume production and multiple tasks in a time critical environment.
- Experience in Environmental Control, PID, Casting, Machining and Metallurgy as well as QA process and SPC.
- Provides business growth through staff empowerment of direct reports, process improvements and championing business intelligence initiatives.
- Excels at internal team development and mentoring with high sense of responsibility and perseverance

**CORE COMPETENCIES**

- |  |   |   |
|--|---|---|
| • <b>Engineering Administration</b>                              | • <b>Crisis Process EA Management</b>         | • <b>HVAC Systems Design and Analysis</b>                     |
| • <b>Strategic Analysis In Environmental Engineering Service</b> | • <b>Complex Problem Solutions</b>            | • <b>Leader with Lean Mfg in Sustainable QA Operations</b>    |
| • <b>Business Intelligence</b>                                   | • <b>Organizational Action Implementation</b> | • <b>Machine Build and Prototype Testing of Product, APQP</b> |
| • <b>Marketing in On-Site Renewable Energy, Wind and Solar</b>   | • <b>Supply Chain Mgmt</b>                    | • <b>Commissioning Sales and Eng. Project Management</b>      |

## **PROFESSIONAL EXPERIENCE**

### ***Belcan Engineering***

*Grand Rapids, MI*

*Contract Engineering Manager (2006-2011)*

A world leader in professional employment contract services for over 40 years, headquartered in Cincinnati, OH has approximately \$7 Million worth of contract engineering activity for Boeing and BAE, distributed out of their Chicago, Ill. offices.

- Successful Boeing 787 Cockpit Electrical Testing and QA for GE Smith's
- Programming of EA and QA ISO-9000 CleanTech Imaging and Electronics Mfg. Environmental Chamber Design/Build. Machine Maintenance and Troubleshooting
- Active Marketing and Sales of Belcan Engineering Services in the Electronics Controls Industry
- HMI and Wonderware software applications, ISO 9000 testing apparatus

### **Pfizer**

Holland, MI

Senior Project Manager (1998-2006)

Survey, topo, elevations, surveying, schematic PID, chilled water, and environmental systems and process design for industrial, commercial, and utility site construction, pharmaceutical processes, and clean room design, chillers, cogeneration, and construction management. Capability studies of HTM (Loop Isolation), design of GabaPentin and Progesterone intermediates pneumatic transfer production systems.

- Maintenance service and production equipment validations for cGMP clean room pack out spaces for manufacturing of pharmaceuticals, including filtration, heating, air-conditioning, and dehumidification and plumbing system specification.
- Blow pipe operations and pneumatic loading systems maintenance service and validation.
- Cogeneration unit sizing and operational maintenance procedure writing. PLC and digital control programming and scripting of pneumatic transfer expertise.
- Civil engineering site development for asset management control and boundary survey.
- cGMP implementation and CIP quality validation procedures for multiple process designs incorporating a master validation and asset management plan with Commercial and Industrial design/build TQM construction management activities

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EXPERIENCE CONT.

### **Progressive AE**

Grand Rapids, MI

Facilities Engineer (1987-1998)

Facilities design of environmental, mechanical, and electrical systems, primary and secondary electrical distribution, and site utilities for pharmaceutical and chemical manufacturers. State of Michigan MDOT and DMB contracts for DSS facilities upgrades. TQM (Total Quality Management) construction project fiscal responsibility.

- Manufacturing plant maintenance and fire safety procedure documentation
- HVAC, make-up air, gas fired appliance application, plumbing, natural gas, water, Sewer and storm systems maintenance procedures
- Civil and Mechanical Engineering site land balance, grading, utilities design and building MEP layout, test and commissioning
- Commercial office and shop design and layout for industrial manufacturing and storage

### **Mobil Oil Corporation**

Dallas, TX

Facilities Engineer (1981-1987)

Polymers design engineer for process piping, oil and natural gas liquids, and Environmental controls, System PFD, PID, petrochemical plant layout and construction cost estimating

- Multi-disciplined Project Manager, civil/mechanical/electrical, environmental site and utilities
- Professional Engineer (Electrical and Mechanical)-Registered in Michigan-#38452
- Expertise in civil and environmental systems engineering for commercial and residential, storm drainage and retention systems, NGL, and gas distribution, air use permitting and Brown site remediation for industrial, pharmaceutical, and commercial facilities
- Over 20 years of experience in maintenance services for HVAC, ventilation and refrigeration controls of pack out and milling, Class 100, 1,000, and 10,000 clean rooms for pharmaceutical intermediates
- Environmental system controls and Renewable's service utility programming with a major exposure to underground piping distribution for gas, storm, water, sewer, and crude oil transmission

## **EDUCATION**

M.S.

Civil Engineering Research and Site Development  
Purdue University, West Lafayette, IN

B.S.

Mechanical & Electrical Engineering  
Purdue University, West Lafayette, IN

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EXPERIENCE CONT.

### **PROFESSIONAL MEMBERSHIPS/CERTIFICATIONS**

- ASHRAE (American Society of Heating, Refrigerating and Air Conditioning Engineer)
- ASME American Society of Mechanical Engineers
- NSPE National Society of Professional Engineers
- Licensed Microsoft Solutions Provider
- LEED Ap Leadership in Energy & Environmental Design
- CEM Certified Energy Manager

### **Industrial Client Listing**

- Howmet Castings (Alcoa)
- Lamar Construction
- Windemuller Electric
- GMB Architects
- Dow Corning
- Michigan Dairy Equipment
- Executive Electric
- Spring Electric
- Belcan Engineering
- KVA Engineering
- Concept Engineering
- Campbell Grinder
- Access Business Group