

Wm. Todd Bedwell, PE

Bedwell Engineering, SC

Owner and Principal Consulting Engineer

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SUMMARY OF QUALIFICATIONS

Licensed Professional Engineer with over thirty years of experience in custom automation, product, and process development. Highly technical and innovative with excellent communication and project management skills, demonstrated by a proven track record of successfully delivering multi-million-dollar projects on time and on budget.

RECENT PROJECT EXPERIENCE

Principal Engineer responsible for project management and technical leadership of custom equipment design and build from start to finish. Project tasks include machine concepts, quotation development, sales presentations, specifications, design, build, system debug, documentation, installation, equipment validation strategy, and after sale support. Some of the more notable multi-million-dollar systems successfully developed, with an average system delivery of one year are featured below:

Pharmaceutical

- Catheter Guide Wire Coating System - Class I, Div. II environment design and build of two custom machines. (\$700K value)
- Lithium Battery Assembly Machines – Pharmaceutical diagnostic implantable device – 3 different machines. (\$2M value)
- Configurable Contact Lens Manufacturing System – Lead concept and engineering oversight. (\$7M value)
- Bio-degradable Stent Balloon Forming System – Fast and accurate balloon forming for stent delivery device including marker band positioning, heated balloon forming, and GAMP validation. (\$1M value)
- High Throughput Screening Systems for drug discovery - Peripheral development including fluid transfer, precision dispensing & aspiration systems, Class I, Div. II environment, and robotics. (\$10M – multiple projects over 5 yrs)
- Stent Retention Forming System - Critical heat transfer stent/balloon forming process with GAMP validation. (\$1M value)
- Drug Inhaler Component Testing System - Custom torque and snap force testing of injection molded components including vision inspection and GAMP validation. (\$1M value)
- Product/Process Team - Successfully solved customer product and process issues, as part of a specialized team, to resume a high value (\$60M) commercial build project.

Industrial

- Electric Vehicle Power Train Assembly Equipment (Tesla) – Lead Project Engineer design, build and install. (\$12M value)
- Mineral Processing Pilot Plant – High temp processing - Lead Project Engineer design, build and install. (\$15M value)
- Custom Thin Film Web Processing Tenter – > 300 FPM web, > 100-foot-long machine within a > 350 Fahrenheit oven, 60 HP servo drives, custom chain transport system. (\$11M value)
- Energy Storage Cathode Processing Machine - Precision semi-fluid servo driven calendering. (\$2M value)
- Custom Fastener Delivery System that automatically installed all the fasteners for the F/A-18E Super Hornet wings – Published SAE Technical Paper 1999-01-3444. (\$1M value)
- Custom Color Printing Press System - Twin tower dual stream sheet-fed lithography printing press capable of printing multi-stock media including thermography. (\$5M value)
- Twin Sheet Rotary Pressure Forming System - Hydraulics, radiant oven. (\$3M value)

WORK HISTORY

Bedwell Engineering, SC (April 2011 – Current)

Isthmus Engineering and Manufacturing, Madison, WI (March 2010 – April 2011); Remmele Engineering, Saint Paul, MN (July 1997 – March 2010); Deluxe Check Corporation, Shoreview, MN (February 1993 – July 1997); Grimm Brothers Plastics, Wapello, IA (July 1991 – February 1993); Hamilton Industries, Two Rivers, WI (September 1990 – July 1991); Winnebago Industries, Forest City, IA (July 1987 – September 1990); Omaha Public Power District - Fort Calhoun Nuclear Power Station (COOP employment 1982 – 1987)

EDUCATION

BSME — University of Kansas, 1987

Registered Professional Engineer in the State of Minnesota since 1993 (License Number 22997)

OSHA 10 Certified; Global Entry Approved

Notable additional training includes: 20 years of experience working with SolidWorks including formal SW training classes, solid modeling design including Finite Element Analysis and Motion kinematics of mechanisms, Computational Fluid Dynamics (CFD), Simulation of Logistics and Industrial Systems, Web Handling and Converting, Aseptic Processing, GAMP and Validation, Six Sigma, Better Business and Technical Writing, and multiple graduate level project management courses at the University of Wisconsin, Madison, WI.