

## **JAMES W PUCKHABER**

Lees Summit, MO

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### **Summary**

Test and Validation Engineer/Manager with 22+ years supporting manufacturing, customer service, R&D and sales, through quality driven activities that tested, characterized and validated cells, batteries and battery systems.

### **Experience**

EaglePicher, Joplin, MO

12/5/2016 to 7/13/2017

#### **Sr. Engineer**

Process, product, and project engineer for medical product production line startup and qualification

- \* Identified, proposed, and obtained approvals for changes to Master Validation Plan (MVP)
- \* Created, edited, reviewed and approved Standard Operating Procedures (SOP), Installation Qualifications (IQ), Software Validation (SV), Process Characterizations (PC), Operational Qualifications (OQ), Performance Qualification (PQ)
- \* Managed availability and inventory of parts for validation activities and performed Product Performance Qualification (PPQ)

XALT Energy, LLC, Lees Summit, MO

1/3/2011 to 6/2/2016

#### **Sr. Testing and Compliance Manager**

Organized, coordinated, and managed lab personnel and resources in the safe testing of Li-Ion rechargeable cells and battery packs using in-house and contracted resources to execute product validations (DVP&R), UN/DOT shipping compliance tests, China certification tests, safety and abuse tests, performance characterization and Design of Experiment tests

- \* Specified equipment, implemented safety containment design, justified budget, executed equipment acceptance tests and corrective actions, and built test labs to support R&D programs, production plant quality assurance, and product validations
- \* Managed multimillion dollar cell testing contract along with other outsourced tests that augmented in-house test capability; Negotiated 30% cost reduction of same
- \* Hired, developed, and led test and validation team
- \* Developed manufacturing plant "buy off run" test plan and quality audit plans, as well as reports for same, and provided technical content for company Safe Testing Policy
- \* Coordinated with Argonne National Lab for performance tests on cells, and also interfaced with Oakridge National Lab on CRADA and WFO activities
- \* Relocated the R&D cell test lab to Michigan; commenced re-establishing the engineering battery pack development and validation test lab

Cobasys, Orion Township, MI

6/27/2005 to 1/8/2011

#### **Manager, Analysis Labs**

Managed up to five ISO 17025 accredited test and evaluation labs providing validation, performance characterization, and failure mode investigation activities to support Product Development, Battery Pack Development, Systems Integration, Manufacturing, and Customer Service. Labs provided electrical and safety performance testing, autopsy analysis and analytical services, and metallurgical and materials evaluations

- \* Evaluated and identified reasons for discrepancy in power data results between testing organizations within company
- \* Successfully obtained and maintained ISO 17025 accreditation with no major or minor findings for initial and all subsequent annual audits
- \* Implemented resource allocation scheduling in the validation and characterization lab program management while improving the reporting of data and results from all labs
- \* Society of Automotive Engineers (SAE) Battery Standards Committee, Vice Chair, 2010

Moltech Power Systems, Alachua, FL

1/1/2001 to 6/24/2005

#### **Manager. Testing Services**

As a senior "hands-on" engineer, managed department providing testing services and product engineering support on various rechargeable battery chemistries to support multiple customers and functional activities: Cell Research and Development, Product Safety Assurance, Applications Evaluation, Contract Test Services, Outsourced Test Contracts, Product UL Listing and Recognition, Competitive and Sourced Cell Product Evaluation, Customer Qualifications, Quality Assurance, Battery Development, and Equipment Calibration and Maintenance

- \* Generated quotations for testing services to external customers, interfaced with UL on all projects and other activities such as the Client Test Data Program, and coordinated testing effort to support global sales efforts
- \* Managed department through drastic downsizing, bankruptcy, and sale of business
- \* Key member of business team responsible for start-up of new battery and cell production facility in China
- \* Participant in ANSI rechargeable battery standards activities

Moltech Power Systems, Alachua, FL

1/3/2000 to 1/1/2001

#### **Technical Marketing Manager, Sales and Marketing**

Technical liaison between Sales and Engineering functions. Developed, wrote, and contributed to articles for trade journals, new product introduction technical presentations, competitive sales presentations, and specification sheets. Reviewed customer applications and resolved application issues.

- \* Co-authored article "Don't Make the Battery Your Last Consideration"

- \* Co-authored Product Introduction Package for entrance of NiMH cell into elevated temperature and float applications

Moltech Power Systems, Alachua, FL

6/28/1996 to 1/2/2000

### **Senior Technology Engineer, Testing Services**

Served as Test and Evaluation Lab Supervisor overseeing the performance testing of primary and secondary (SLA, NiCd, NiMH, Li-Ion) cells and batteries. Managed test equipment calibration activities and timing. Managed weekly cell audit test plans. Created fixture designs and testing methods for unique requirements. Developed and trained technicians. Implemented performance tests in compliance with IEC and ANSI standards. Test Engineer for OEM qualification tests requiring the interpretation of customer test requirements, setup and either perform or sub-contract tests, prepare cost budget, and publish test reports.

- \* Lead engineer role in achieving certification for the Battery Test Lab under UL Client Test Data Program

- \* Project Test Engineer on over 20 major account new battery design qualifications

- \* Implemented scheduling of tests on test systems to increase equipment utilization by 20% while greatly improving efficiency and morale among technicians

Energizer Power Systems, Alachua, FL

6/28/1993 to 6/28/1996

### **Customer Quality Assurance Engineer, Manufacturing**

Supervised technicians in the repair, replacement, and accounting of OEM and consumer returned products. Monitored production cell quality issues and led weekly cell quality meeting. Provided engineering guidance and support for both Production Quality Control and Customer Quality Assurance technicians in battery and cell testing, test setup, evaluation of test results, failure analysis, and safety.

Directed a technician in the analysis of customer returned products. Analyzed returned rechargeable batteries and applications for cause of failure, obtained corrective action, prepared reports for internal and external distribution.

Multiple team activities with the following notable achievements:

- \* Led team of engineers and technicians that reduced scrap by over 50% for a low volume NiCd product

- \* Co-Led engineering and technician team that improved the production weld process for NiCd/NiMH cells: reduced welder downtime for preventative maintenance, improved cell quality and reduced line scrap for high speed production lines

### **Military Service**

United States Navy

Feb. 1981 to Feb. 1987

### **Petty Officer Second Class, E-5, Surface Ship Nuclear Propulsion Plant Operator - Mechanical**

Nuclear powered propulsion plant operation, maintenance, technical support staff, personnel supervision, and quality control

### **Skills**

5S, 8D, APQP, Battery Characterization, Battery Testing, Budgeting, Calibration, Competitive, Content Management, Contract Management, Cost Control, Customer Relations, Customer Service, DVP&R, Equipment Repair, Failure Analysis, Financial, Industry standards (ANSI, FreedomCar, GBT/T, IEC, ISO, JIS, UL, USABC, UN/DOT), Interpretation, Inventory Management, IQ, Leadership, MVP, Materials Management, Microsoft Excel, Microsoft Office, Microsoft Powerpoint, Microsoft Project, Microsoft Word, OEM Tier 1 Supplier, OQ, Personnel, PQ, Presentation Skills, Problem Solving, Production Part Program Management, PC, Project Management, Quality, Quality Assurance, Quality Control, Reports, Research, Root Cause Analysis, Safety, Sales, Scheduling, Shipping, Six Sigma, SOP, SPC, Specification, Statistical Process Control, Supervisory Skills, SV, Technical Reporting, Technical Support, Test Equipment, Troubleshooting, Validation, Verification, Vector CAN, Writing

### **Skills, Programming**

Angular.io, Bootstrap, CSS, Git, GitHub, HTML, IntelliJ IDEA, Jasmine, Java, Javascript, MySQL, Node.js, Pascal, Python, Thymeleaf, Trello, Visual Studio

### **Education**

2020 Launchcode, Kansas City, MO

**Full Stack Developer** coursework, completed

1993 University of Florida, Gainesville, FL

**Bachelor of Science in Electrical Engineering:** Electrical Engineering

**GPA:** 3.28

1990 Florida Community College at Jacksonville (AA), Jacksonville, FL

**Associate in Arts:** General Studies

**Honors :** Graduated with high honors, President's and Dean's Lists, **GPA:** 3.78