

## **David Bacon**

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### **Objective**

Continuous improvement of production welding processes.  
Development of the technical support team.

### **Accomplishments**

- Taught formal welding classes to a major portion of the General Motors body shop tradesmen.
- Setup successful remote sales office for Pertron Controls Corp.
- Put Pertron in the INC 500 for three years by authoring and marketing their first dedicated automotive control.
- Rewrote Chrysler ODMTC specification to include modern features, bringing Pertron 50% of all Chrysler business.
- Obtained first formal approval of weld control to Ford AAD "10TS" specification.
- Designed ADC control, bringing new features to market. First year sales of 2000 controls was 19% of US market.
- Worked with Delco Kettering to rewrite weld control specification to require ATek's specialized features.
- Solved Taurus gas tank recall problem by creating an adapter to put ATek controls on Soudronic seam welders.
- Developed an interface for ATek controls on Medar Miz'r welders at Ford, creating an opportunity for ATek corporation.
- Assisted initial formulation of GM Truck Weld Gun Verification procedure, now mandatory for all new machinery.
- Created the ATek "Mod-U-Weld", an ADC replacement, making them the only legal, licensed second source.
- Assisted RoTech of Sweden to take over manufacturing of the ADC weld control. Sold their first 164 to GM Truck.
- Assisted Medar with their ADC-like control, got them installed at all GM plants using the ADC control.

### **Skills**

#### **Computer**

Proficient with MS Word, Excel, HTML, Micrografx Designer and Picture Publisher, Adobe Publisher.  
Functional with RS Logix, Adobe Illustrator, MS Power Point, FTP servers, CGI-Script, and ASP.  
Basic knowledge of AutoCad, Solid Edge, and MS networking.

#### **Instrumentation**

Bench test instruments such as VOM, Oscilloscope, etc.  
Welding instruments: Dranetz Line Disturbance Analyzer, Miyachi, Pertron, & Dengensha Weld Current meters, Lebow, Sensor Developments, & Tufaloy force gauges, Roman, & Biddle Micro-Ohmmeters. InTech flow meters, GE Krautkramer Ultrasonics, Raytek non-contact thermometer, and entry-level knowledge of Thermal imaging with InfraMetrics (FLIR).

#### **Weld Testing Equipment**

Cut, polish and etching operation, tensile testers, pry checking and qualification procedures.  
Intimately familiar with GM4488M weld qualification procedures, and WS1, WS4 GM weld specs. Chrysler PS10947 and Ford weld qualification specs.  
Familiar with stamping operations, and the associated part check fixtures.

#### **Weld Controllers**

Pertron PWC-300 & TIM 1000-5000 series, Medar 3005, along with the proprietary AB ladder logic, and most others, including Nadex MFDC, Robotron, Atek, Weltronic from "Book Panels" to WT530 style, Nadex MFDC, Newer Technitron MFDC, & Interlock.  
Square D EQ5045, EQ5100, EQ5300, EQ5400, Automation Data Corp Trans-Mate, and its peripherals including PC interface, now marketed by Rotech of Sweden.

#### **Machine Controllers**

AB PLC - particularly SLC500, and Square D SyMax, Modicon (Now Schnieder Electric)

### **Employment History**

#### **2005 - 2006 Welding & Engineering Services, Inc. St. Clair, MI    *Owner-Partnership***

Started new corporation to service the prototype assembly business, providing weld cells, startup assistance, and maintenance on a rental basis.

Worked with 3 partners to design, procure components, assemble, and lease robotic weld cells for short run production and prototype shops to expand their capabilities from just metal stamping into final assembly. Assisted other prototype shops to get full capabilities in the welding area. Schwab, A-Phase, Quality Metal Craft, New Center Stamping, & others.

## Employment History, continued

### **2003 - 2005 AZ Automotive, Center Line, MI *Welding & Assembly Manager***

Responsible for corporate weld & assembly specifications and the Tooling Standards web page (See [www.azautomotive.com](http://www.azautomotive.com)).

Organize the *AZ Weld Council* for continuous improvement of corporate tooling standards, and supplier selection. Develop and qualify new suppliers, generate procedures and documentation for new tool follow-up and qualification. Provide technical guidance for the nine Plant Manufacturing Engineers, and their Weld Technicians. Designated alternate at Corporate Management meetings in the absence of the Director of Manufacturing Engineering.

### **1992 - 2003 Update Technology, Shelby Township, MI *Resistance Welding Specialist***

Self employed for 12 years, as a resistance welding specialist for the auto industry.

Developed and conducted formal classes in Resistance welding and select brands of welding controllers. Assisted Corporate Weld Engineers during new body shop startups, establishing procedures, and troubleshooting methods. Assisted union tradesmen to learn the new welding equipment. Reports generated to the GM Technical Center, when required. Coordination with other departments, such as specification training for the body shop Quality Department.

#### **Assisted:**

Atek Corp, Chattanooga TN	Budd Co. Philadelphia PA	Budd Co, Shelbyville KY	Rotech, Gothenburg, Sweden
Delco Kettering OH	Ford Ky. Truck	Ford Rouge Gas tank	GM Arlington TX
GM Flint MI	GM Fort Wayne IN	GM Janesville WI	GM Linden NJ
GM Lordstown OH	GM Moraine OH	GM Parma OH	GM Prototype, Warren MI
GM Shreveport LA	GM Wentzville, MO	GM Wilmington Assy	Kuka Welding Sys, Clawson MI
Lamb, Marysville MI	Medar, Farmington MI	PSI, Ottoville OH	Raytheon Services OH & TX
DEC, Madison WI	Saturn, Spring Hill TN	Square D, Palatine IL	WTC Corp, Carol Stream IL

### **1990 – 1992 Square D, Pertron Division, Troy, MI *Director, Manager of Customer Engineering***

Director level position, created to empower me to re-assemble the Pertron Sales and Service organization.

Setup a Service Department specializing in weld controls, with staff "on loan" from Square D Technical Services Division.

Setup a welder-only Sales Group with staff from Square D Automation Products Division.

Management of a staff of 34, representing Sales, Applications, Service, Training, Board Repair and Shipping departments.

### **1987 - 1990 Automation Data Corp., Troy, MI *Manager of Engineering & Sales***

Two-man startup of a new company, to design and market a compact, advanced-featured weld control.

Sales in the first year captured almost 20% of the total US market for resistance weld controls.

My control design produced savings that exceeded 100% of the cost of conventional controls, by eliminating redundant interface equipment, wiring and services. (as demonstrated by the Budd Company Corporate Engineering calculations)

Features of this weld control have been adopted by all of the automotive weld control manufacturers:

### **1978 – 1987 Pertron Controls Corp, Van Nuys & Chatsworth, CA *Sales & Application Engineer***

Setup Detroit Sales Office, and started many major single-source automotive accounts.

Chevy Flint Metal Fab	Chevy Flint Truck Assy	Pontiac Metal Fab
GM Pontiac Truck & Coach	GM Bowling Green Corvette	GM Baltimore Assy
Chrysler Eldon Axle	VWOA Sterling Heights	GM Fort Wayne Assy
Budd Kitchner		

Developed and sold the first Pertron single-phase automotive-style control.

This enabled Pertron to become the largest US manufacturer of resistance welding controllers.

Pertron patent for this control carries my name, US patent number: 4,456,809

Manager of one of the three Sales teams, accounting for over 14 mil annual sales (70% of company sales).

### **1975 - 1978 GM Detroit (Chevy) Gear & Axle, Detroit, MI *Welding Engineer***

Started as UAW Journeyman Electrician, responsible for electronic troubleshooting & repair.

Built Marposs grinder in-feed panel test fixture.

Redesigned internal power distribution on critical Modicon 084 applications, eliminated troublesome shutdowns.

Later placed into Welding Engineer position, responsible for weld operations and new machinery qualification.

Applied Pertron weld controller on their 1st automotive application to solve induced magnetism problem in 3rd member.

Applied Pertron welder and rotary encoder to eliminate critical welding problems on brake-shoe production welders.

## Education

R.E.T.S. Electronics, Detroit, MI

*Industrial Electronics, 1964-1966*

GPA: 4.0. Graduated as class Valedictorian

USAF, *Tanker Aircraft Mechanic, Strategic Air Command, Heavy Bomb Wing, 1960-1964*

Required skills in mechanical, electrical and hydraulic systems.

Developed and performed "in-flight" trimming method for the flying refueling boom, at boom operators' request.

Birmingham-Seaholm High, Birmingham, MI *Major: Science, Minor: Math, 1957-1960*