

EXPERIENCE

- 36 years of medical device development and expert with safety critical embedded software.
- Forty one patents for electromechanical devices and software algorithms.
- Design and implementation of operating systems and drivers for embedded microcomputer devices.
- Principal Software Engineer with GE Medical Systems and Johnson & Johnson Medical.
- Design and implementation of optimized DSP and control algorithms.
- Design and implementation of optimized graphical user interface software.
- Working as team member while mentoring and supervising groups.
- Expert at working with real time and multi-priority systems.
- Expert at producing cost effective solutions.
- Comprehensive understanding of electronic and mechanical systems.
- Proven problem solver – known for solving the most complex, deeply embedded issues.
- Started career as a Test and Service technician in communications industry.
- Computer languages: C, C++ and assembler.
- Microprocessors: Microchip, Intel 8086, Motorola 680X, 68360, 68302, MPC8XX, MC2107.
- Self-employed since 2009 working as consultant and contractor as software engineer for embedded systems, including many medical devices.
- Ham radio operator: activities include HF antenna design, transceiver repair and operation on voice and digital modes.

CREDENTIALS

- Trained in Johnson & Johnson and GE Medical Software Quality Assurance processes.
- University of South Florida, Tampa, FL BS Electrical Engineering Tech, 1985
- Patents:

Patent #	Title
8,690,786	System and method for a non-invasive blood pressure monitor
8,308,647	System and method for a non-invasive blood pressure measurement
8,282,567	Method and system for determination of pulse rate
8,047,997	Non-invasive blood pressure monitor apparatus and system
7,775,987	Computation of blood pressure using different signal processing channels
7,544,167	Method and system for cuff pressure reversions
7,462,152	Method and system utilizing SpO.sub.2 plethysmograph signal to reduce NIBP determination time
7,314,310	Predictive temperature probe with proximity sensor
7,311,669	Oscillometric determination of blood pressure
7,300,404	Method and system utilizing SpO.sub.2 plethysmograph signal to qualify NIBP pulses
7,288,070	Method and apparatus for determining extreme blood pressure values
7,226,421	Method of controlling blood pressure cuff deflation
7,198,604	Method and system for determination of pulse rate
7,186,218	Method and system for cuff pressure reversions
7,074,192	Method and apparatus for measuring blood pressure using relaxed matching criteria
7,070,566	Artifact rejection using pulse quality values
6,893,403	Oscillometric determination of blood pressure
6,746,403	Physiological-signal-analysis device for measuring a blood pressure and method
6,648,828	Continuous, non-invasive technique for measuring blood pressure using impedance plethysmography
6,537,214	Patient monitor with configurable voice alarm
6,358,213	Calculation of quality and its use in determination of indirect noninvasive blood pressure
6,188,407	Reconfigurable user interface for modular patient monitor
6,050,951	NIBP trigger in response to detected heart rate variability
5,993,396	Method and apparatus for determining a minimum wait time between blood pressure determinations
5,800,359	NIBP playback system
5,704,362	Method for oscillometric blood pressure determination employing curve fitting
5,680,870	Oscillometric blood pressure monitor which acquires blood pressure signals from composite arterial pulse signal
5,606,977	Oscillometric blood pressure monitor which automatically determines when to take blood pressure measurements
5,579,776	Oscillometric blood pressure monitor with enhanced cuff pressure control
5,577,508	Determination of oscillometric blood pressure by linear approximation
5,518,000	Oscillometric blood pressure monitor employing deflation periods of alternating durations
5,309,908	Blood pressure and pulse oximeter monitor
5,253,645	Method of producing an audible alarm in a blood pressure and pulse oximeter monitor
5,170,795	Oscillometric blood pressure monitor and method employing non-uniform pressure decrementing steps
5,052,397	Oscillometric blood pressure monitor employing non-uniform pressure decrementing steps
4,807,631	Pulse oximetry system
4,754,761	Automated mean arterial blood pressure monitor with data enhancement
4,638,810	Automated diastolic blood pressure monitor with data enhancement
4,627,440	Sphygmomanometric cuff pressurizing system
4,543,962	Method of automated blood pressure detection
4,461,266	Adaptive incremental blood pressure monitor