

David G. Hancock

Primary Residence

Suwanee Creek Software

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Executive Profile

Founder and Principal Developer at Suwanee Creek Software, creating a product to analyze large C and C++ applications. Formerly COO and Founding Partner of \$6 million industrial software company where I was actively involved in all areas of the business - software development, marketing, management, financial control, contract negotiations and hiring and HR issues.

Skill Highlights

- Programming, Application Design and Project Management
- Consulting and Services, Hardware & Software Evaluation
- Emerging Technologies, Information System Architecture and Planning, MIS/Systems Development
- Industrial Automation, HMI/SCADA and Manufacturing Systems
- Research Development and Engineering
- Graphics Programming, Communications Drivers
- Strategic Planning and Business Development
- Contract Proposal, Negotiation & Administration
- Partnership Agreements, Strategic Alliances
- Technical Sector Project Management
- Start-Up/New Venture Management, Business Plans, Venture Capital and Financing
- Marketing and Sales, Press Relations, writing Company Releases, Articles and Application Stories
- Thin Client and Terminal Services technology

Core Accomplishments

Technology:

- A 35-year track record of professional engagement in software development.
- Proficient in a spectrum of programming languages, ranging from high-level languages to machine code.
- Expertise encompasses industrial control, factory automation systems, graphics, communications, and software optimization.
- Currently spearheading the development of a Software Analysis and Metrics product in C++, spanning 40,000 lines of code.

Independent Software Analyst and Expert Witness:

- Demonstrated prowess as a Qualified Technical Expert in an industrial software misappropriation and trade secret infringement suit, contributing over 1,300 billable hours.
- Analyzed three products totaling 1.1 million lines of C code, some featuring up to 75 versions which significantly augmented the complexity of the examination.
- Aided in deposition preparation and interviews, attended multiple depositions, and underwent questioning by opposing counsel.
- Tasked with evaluating software for potential patent infringement, resulting in a comprehensive 120-page final report with over 200 additional exhibits.
- Assessed Emergency Room Simulation software in the "R" language for potential patent infringement.
- Conducted a comparative analysis of Advanced Process Control (APC) software for two companies involved in litigation, focusing on operational aspects and the user interface of competing APC systems.
- Testified in court in a patent infringement case involving continuous weight loss monitoring system and PID control.

Business Development:

- Pioneered partnership programs with hardware vendors, software companies, and integrators.
- Formulated corporate co-marketing, distributor, partner, and reseller agreements.
- Cultivated a global distribution channel to expand market reach.
- Successfully secured all corporate trademarks.
- Played an active role in the inception and growth of two successful technology startup companies.

Project Management:

- Demonstrated adept management of multiple development teams, involving the recruitment and hiring of programmers.
- Proficient in producing accurate estimates for new software development and automation control projects.
- Seven years of experience designing, creating, and deploying software for municipal traffic control systems.
- Applied expertise in estimating man-hours for a large legacy system in a software piracy case.
- Developed standards and requirements for onboarding new software developers..

Programming Languages

Proficient in C, C++, Fortran, Basic and Assembly. Have worked professionally in Visual Basic, Java, HTML, PLC Ladder Logic and various HMI software tools. Have programmed in Objective C, PL/I, and COBOL.

Professional Experience**Suwanee Creek Software**

January 2013 to present

Vice President

Suwanee, GA

www.SuwaneeCreekSoftware.com

Founded Suwanee Creek Software primarily to develop and bring to market an analysis tool for large C and C++ applications. The product, *ClearStream*, is an object-oriented metrics tool that analyzes source code to create a visual, class-centered architectural model. It locates classes and functions in the target software and shows how they relate to each other in a graphical format. It is useful for customers who need to identify unused (and overused) classes in their own software, monitor the development of a large project, maintain or update legacy software, search for useful components in the wealth of Open Source software available online, check for software similarities among large products, or evaluate large software before investing in a company. *ClearStream* also produces traditional software metrics and reports.

Technical Skills:

- Product architecture and design.
- Writing and modifying large C++ software using Microsoft Visual Studio.
- Writing test software and producing test cases.
- Developing documentation and help libraries and localizing embedded control software and UI
- Creating supporting system utilities in C++ and Visual Basic
- Writing communication drivers, communicating with diverse manufacturing equipment
- Analyzing hundreds of thousands of lines of C and C++ Open Source software.
- Qualified technical expert on software misappropriation case.

Automation Control Products (ACP)

February 1997 to August 2012

Chief Operating Officer

Alpharetta, GA

www.ThinManager.com

Partnered with two Georgia Tech graduates to form an industrial integration firm which ultimately developed a Thin Client management software product called ThinManager. ThinManager became the top selling industrial Thin Client management software in the world, used by 10% of the Fortune 500 companies and installed in over 30 countries. During my tenure I worked as programmer and systems integrator, Project Manager, VP of Marketing, General Manager and finally Chief Operating Officer. ACP was purchased by Rockwell Automation in 2016.

Technical Accomplishments:

- Developed HMI screens with Wonderware, Visual Basic, WinCC and GE/Intellution software.
- Wrote serial and communication drivers and device drivers, including drivers to run in NT kernel Mode.
- Wrote PLC code for machine control.
- Wrote interface software for factory equipment, including scales, barcode readers/printers, motor controllers, high-speed cameras, proximity sensors and pulse counters.
- Created Time and Attendance software package.
- Located and purchased hardware directly from vendors in Taiwan for sale in the US.
- Published numerous articles in industry magazines on Thin Client technology

Process Control Corporation

August 1990 to February 1997

Software Development Manager

Buford, Georgia

Process Control is a leading manufacturer of equipment designed to blend plastic ingredients for use by any continuous or batch plastics production system - blown film, fiber, laminates, injection molding, etc. Started as a programmer and moved up to management.

Accomplishments:

- Managed a software development team and all software projects for the company.
- Wrote and optimized embedded software for machine control systems in C, C++ and Assembly language.
- Developed algorithms and software to read continuous weighing strain gauges.
- Created proprietary network communication protocol to monitor and control equipment.
- Developed Wonderware based HMI control screens.
- Wrote initial version of Integrated Real-Time Trending, Material Management, and Monitoring Program.
- Developed advanced equipment user interface and added multiple language capability.
- Developed and implemented PID control loop for continuous material feeding.
- Implemented revision control software and bug tracking system.
- Wrote documentation and visited manufacturing plants worldwide to review specific customer installations.
- Designed new version of mechanical filler valve, built and tested prototype.

Independent Consultant

February 1996 to August 1996

Suwanee, Georgia

Hired as a consultant to develop a prototype GPS based traffic logging and analysis system. Embedded software written in C, hardware built from various SBC boards. Once the design was finished and components were purchased the prototype was delivered in about 3 months.

jhk & Associates

September 1983 to August 1990

Senior Systems Engineer

jhk & Associates was a traffic engineering firm with offices across the US. In addition to basic traffic analysis and reporting they installed large computer controlled traffic systems for cities such as Los Angeles, CA, Atlanta, GA, Denver, CO, Portland, OR, Ottawa Canada.

Accomplishments:

- Developed an interactive drawing program to allow traffic engineers to graphically represent city streets and intersections.
- Added the ability to create dynamic elements that automatically reflect changes in large traffic system databases.
- Created displays to allow visualization of traffic flow - speed, occupancy, volume and signalization.
- Wrote communication and graphics drivers for PCs and mini-computers.
- Wrote interface code for various traffic control devices.
- Designed and developed user interface software.
- Analyzed and responded to government bid requests.

Education**Auburn University**

Computer Engineering, Bachelor of Science

Auburn, AL, USA

Auburn University's Computer Engineering degree was a combination of Electrical Engineering and Computer Science. Focus was on embedded control systems and microprocessors.