

Kevin F. Kinion

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Capabilities: Project Management, Design using Microcontrollers, Software (Various Languages), Firmware (Assembly, C). RF, Analog, and Digital Design. Design of Automated Test Equipment, Hydraulic and Pneumatic Machines – Programmable Controllers/Ladder logic. Design using Schematic Capture and Circuit Board Layout (PADS Mentor Graphics), Simulation, MathCad and other Engineering Software Tools. Familiar with most office software. Member of the Microchip Consultant Program.

Patents: 6,282,829 Magnetic tag firearm safety enhancement system with grip switch
6,219,952 Magnetic tag firearm safety enhancement system
6,343,429 Inertia-resistant preventer mechanism for firearm safety enhancement system

Experience Summary

KinTech Manufacturing, Inc. (12 years) **President, Engineering Manager, Design Engineer**

- Designed numerous projects some of which include an access control system for a personalized firearm (patented), switching power supplies, battery chargers, controllers for Honda Goldwing and Harley Davidson motorcycles, a microprocessor based controller for a dry ice machine, network of controllers and instruments for automated industrial filter back-flush system, and low power battery operated controller for weight measurement, automotive ATE, biometric (fingerprint activated) safe, TCP/IP based controllers and many others.
- Designed products to meet UL Medical Safety Standards (UL2601-1) and FCC part 15 standards.
- Wrote process control documents and set up manufacturing processes for circuit board assembly operations.
- Wrote business plan, obtained stockholders and financing, bought equipment, and performed or delegated all necessary functions for starting a new manufacturing and engineering company.

Martin Marietta (formerly GE Aerospace); Daytona Beach, FL/Huntsville, AL (8 years) **Project Engineer/Systems Engineer** (4 years)

- Consistently completed projects on time and within budget.
 - Resolved production related issues on 47 highly sophisticated circuit card assemblies.
 - Wrote comprehensive proposals for simulation equipment.
 - Designed test procedures for tank simulators and circuit boards.
 - Conceived methodology and developed plan to resolve test and production related problems with sub-contractors.
 - Developed and tracked detailed cost and schedule, and hired appropriate personnel.
 - Led design effort, ordered material, and resolved various design related issues.
 - Installed upgrades of equipment, trained appropriate personnel in their use and maintenance.
 - Resolved cost, material problems, schedules and staffing requirements.
 - Performed analysis of staffing requirements and implementation.
 - Received General Manager's Award for study of the work culture.
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Design Engineer (4 years)

- Designed multiple, highly complex, RF, high speed analog and digital circuit card assemblies for state of the art military test system (CASS).
- Coordinated design effort between team members.
- Generated schematics, parts list, parts specifications, and wrote interface control documents.

Electro Design Manufacturing, Inc., Decatur, AL (2 years), Sales/Engineering

- Designed ATE system to test large digital circuit card assemblies.
- Designed special purpose test equipment to test high production military circuit cards.
- Wrote programs in 8088 and 68000 assembly and BASIC to control ATE and special purpose test equipment.
- Oversaw contract labor required during peak periods.
- Met with customers, wrote proposals and assisted in negotiations.
- Increased backlog by \$5 million as a direct result of intensive sales effort.

McDonnell Douglas, Huntsville, AL (1 year), Design Support Engineer

- Performed engineering support activities for spacelab.
- Wrote C language programs for support activities.

Woodard Electric, Hartselle, AL (1.5 years), Design Engineer

- Designed, built, and delivered a memory system upgrade for the Army's Land Combat Support System.
- Designed, built, and delivered an on-board memory card (EPROM) programmer.
- Designed various test systems for analog and digital circuit cards.
- Wrote computer control programs in HPBASIC and Assembly for test sets.

Education

University of Alabama in Huntsville, Huntsville, AL

- Graduated June 1985, Bachelor of Science in Electrical and Computer Engineering.
- Attended numerous engineering seminars for Texas Instruments, National Semiconductor, and Microchip's MASTERS seminar for the past five years.

Volunteer Positions

PTA President and School Improvement Leader (5 years)

Boy Scout Leader (12 years), Church Leader (10 years)

Florida Technology Student Association (TSA) Judge (5 Years)

- Recruited volunteers to help with school and Boy Scout projects.
 - Organized fund raisers, scheduled projects, organized committees, Master of Ceremonies at PTA and Scouting events.
 - Worked with the county and state PTA presidents on local, state, and national issues.
 - Coordinated activities between the Boy Scouts and Church.
 - Served as Committee Chairman for the Church and Boy Scouts.
 - Judge for Technology Fairs and Competitions.
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