

Michael C. Corder

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I am looking for an opportunity to put my extensive technical and creative skills to use in a challenging and enjoyable environment. I have significant abilities and knowledge in the fields of General Electronics, science and physics, mechanical fabrication, mechanical maintenance, computers, telecom, datacom, networks, programming, database development, documentation, technical writing, woodworking, newspaper pre-press and operations, Aerospace, weapons systems, technical research, alternative energy, and automotive systems.

I am highly creative, innovative, intuitive, responsible, dependable, and I exercise very high standards for workmanship and reliability. I have a broad understanding of many fields of Science, technology and engineering. I am especially adept at using a systems approach to bring facets of different technologies and disciplines to effectively address an issue. After a career in industry, and an enthusiastic pursuit of many avocational interests, I am hoping to put my extreme breadth of skills into the areas of research, product development, and engineering.

Below are some of my capabilities. A formal resume is also available.

- **Electronics**

- Possess the skills and abilities for electronic system maintenance to the component level.
- Very adept at troubleshooting, repairing and modifying legacy or custom electronic devices and systems
- Experienced at Naval missile fire control radar and systems. (Naval FTM school graduate).
- Working knowledge of RF Principles.
- General knowledge of Microwave and radar systems.
- Significant design and engineering skills in the following areas:
 - Digital logic design.
 - 8-bit microcomputer systems and processors at the gate level.
 - Command, control and instrumentation systems design and implementation.
 - Power control, distribution and monitoring systems.
 - Audio systems.
 - Electronic musical instrument repair and modification.
 - Robotics/Mechatronics design and fabrication.
 - Prototype design and fabrication.
 - Automotive electronic and DC Power systems.

- **Science and technology**

- Good working knowledge of, and high interest in, general physics principles.
- Understanding of Basic Thermodynamics.
- Broad awareness of the state of the art in various technologies.
- General knowledge of industrial processes.
- Knowledge of weapon systems and military technology.
- Knowledge of aerospace and aircraft systems and technologies.

- **Computers**

- Comprehensive knowledge of computer technology history.
- Programming abilities with an emphasis on logic, logical design, user interfaces, and embedded control.
- Abilities in Assembler and machine programming, especially 6800 and Minis.
- Knowledge of database design principles and programming including SQL.
- Competent in HTML, XML, ASP and other web technologies.
- Competent in various dialects of Basic.
- Extensive network design, installation and configuration experience.
- Comprehensive knowledge of Ethernet and TCP/IP networks.
- Extensive experience at Structured wiring systems design and installation.
- Extensive experience in Telecom and Datacom.
- Cisco Configuration and maintenance. Switch and VLAN configuration. (CCNA).
- Working understanding of many operating systems. (IE: Windows, OS2, AIX, Unix, Dos, Mac OS, VaxVMS)
- Excellent ability to quickly learn new applications.
- An innate understanding of computer logic principles and program flow.
- Exposure to, and experience with, a wide range of systems - Mainframe, Mini and Micro.

- **Mechanics**
 - Proficient in most areas of vehicle diagnoses and repair. Especially:
 - Engines, and engine control systems
 - General mechanical repair
 - Vehicle electrical systems
 - In depth understanding of Internal Combustion Engine principles
 - Repair and maintenance of consumer products. IE: Printers, VCRs, appliances, etc
 - Repair and maintenance of mechanical automation systems
 - General mechanical fabrication and light machine shop experience
 - Good understanding of Hydraulic principles and operation
 - A good understanding of Aerospace standards and procedures
 - A good understanding of mechanical fatigue and stress
 - Knowledge of Aerospace fasteners and standards

- **General Knowledge**
 - Extensive understanding of the internet and ability to perform research with it.
 - Experienced Library patron, and I know how to utilize Library resources
 - Experience in designing and utilizing databases.
 - Experience in system and procedural documentation
 - Technical writing abilities
 - Highly organized,
 - Strong belief in and ability to create documentation.
 - Read various trade journals and technical publications
 - Have instructed classes on various technical subjects

- **Other significant abilities**
 - Accomplished woodworker
 - Competent at both rough and finish carpentry
 - Ability to professionally perform any trade involved in residential construction including
 - Framing design and construction
 - General trim carpentry
 - Cabinet layout and installation
 - Standard cabinet construction
 - Electrical layout and installation
 - Layout and installation of Copper piping systems
 - Installation of DWV systems
 - Sizing, design and installation of HVAC
 - Design, installation and programming of residential security systems
 - Design and installation of home theater and whole house audio
 - Design and installation of residential automation systems
 - Refrigeration systems
 - Extensive knowledge of tools and machinery
 - Familiarity with Pro Audio and lighting
 - Play various musical instruments

In addition, I have a completely equipped design lab and workshop. I can do prototype design and fabrication, as well as custom and one-off projects in most non-specialized areas of technology.

You may contact me at: mcorder@insight.rr.com
 or visit my WebSite at <http://mccworkshop.com>