MANTARO Networks Inc. ● 20410 Century Blvd ● Suite120 ● Germantown, Maryland 20874

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Mantaro Software Development Capabilities

- Mantaro's embedded software team works closely with our hardware engineers and applications software specialists to provide complete integrated system analysis including:
  - Hardware/software tradeoff analysis to optimize for cost and efficiency
  - Functional partitioning of distributed systems
  - Requirements analysis and embedded software architecture design
  - Performance analysis to ensure that systems meet performance and timing requirements
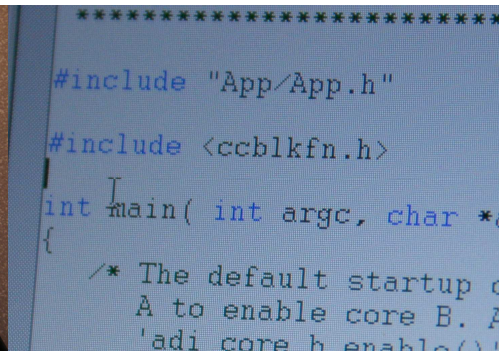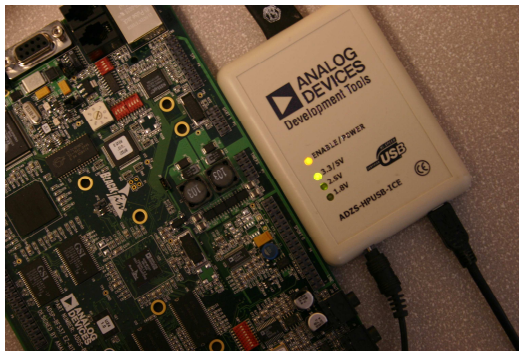
Mantaro Software Development Capabilities

- Mantaro's team of veteran embedded software engineers have wide ranging experience in embedded systems applications including:
    - High availability systems for network core equipment, telecommunications carrier equipment, and factory automation systems
    - Demanding low power systems for battery operated consumer goods, automated remote imaging and sensor systems
    - Wireless technologies including Bluetooth, Zigbee, and WiFi and mobile satellite terminals
    - High performance DSP applications for filtering, demodulation and decoding at RF, IF and Baseband
    - Complex software systems for multi-tier network management systems, satellite earth station equipment and telecommunications test equipment
    - Legacy systems porting to modern hardware/software platforms

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Mantaro Software Development Capabilities

- Mantaro has experience with many tools and evaluation modules allowing us to hit the ground running on your embedded software development.
  - Processors: PowerPC and Freescale PowerQuicc, x86, ARM, Atmel AVR, Analog Devices Blackfin, TI MSP430
  - Operating Systems: Linux, Embedded Linux, ucLinux, VxWorks, pSOS, Nucleus, Windows CE, and others
  - Development Platforms: GNU compiler collections, IAR CodeBench, Freescale Code Warrior, Wind River Tornado, Microsoft Visual C++ and others
  - In-Circuit emulators and JTAG debug probes
  - Languages: C, C++, and assembly language for embedded systems supported by Perl, Python, TCL, Ruby and Java for build automation and testing

Mantaro Software Development Capabilities

- Mantaro's embedded software engineers understand hardware architectures and are at home in the lab using hardware test equipment such as:
  - Function and signal generators
  - Logic Analyzers
  - Oscilloscope
  - Protocol monitors and analyzers

Mantaro Software Development Capabilities

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- Mantaro understands that software products are not complete when the "code works" and provides the ongoing support required to release, upgrade and maintain products throughout their lifecycle.

  – Complete Documentation including: requirements, design, interface, control, and user manuals

  – Test plans and procedures, unit test harnesses, systems integration tests and final release testing

  – Automated testing using software test frameworks and automated regression testing

  – Code revision management using CVS, Subversion or other tool of your choice

  – Formal bug tracking

  – Software release and configuration management.