

Acionyx is a custom software development and consulting company that has proven expertise in the design and development of embedded systems.

Over the past 10 years, Acionyx has worked with large and small companies designing and implementing embedded system applications.

Acionyx engineers have worked in diverse application areas such as telecommunication, networking, instrument control and automotive control systems.

### Services

#### Firmware

Services include design and implementation of firmware for embedded systems. Platforms range from small foot print OS environments to RTOS environments like VxWORKS, Real Time Unix/Embedded Linux/Windows Mobile.

#### Device Drivers

We provide services for developing device drivers for Windows, Unix/Linux and proprietary OS.

#### Wireless

We provide consulting and custom development of embedded software for networking and communication applications. This includes Layer 1, Layer 2, Networking and Routing layers for IP, telecom and Wireless protocols. Our Wireless experience includes extensive CDMA based technologies for base stations, framework for development and QA based on standards like IS-95, IS-2000 and beyond.

#### Domain Experience

- Wireless (base stations and mobile units)
- Automotive control (MODBUS)
- Instrument control
- LCD Device drivers
- Modem and Set Top Box

#### Hardware

Services include design of both prototype and production ready boards that are discrete processor or ASIC based. We have experience in both standard or custom SBC designs that includes DSPs. Our offshore development center can design and manufacture multi layer boards and MIL grade boards. The facility approvals include Manufacturing and Testing approval by American Defense Electronics Sourcing Center (DESC) and ISO 9000 certifications.

### Tools and Technologies

- Real Time Operating Systems
  - ◊ Windows CE / Mobile
  - ◊ QT
  - ◊ Embedded Linux
  - ◊ VXWorks
- C/C++/J2ME/BREW
- Tornado
- Purify
- Eclipse
- visionICE

### Sample Embedded Systems Projects

- LCD Display drive for fax/modem
- 2D Display driver for WinCE.NET
- Data handling system for an instrument used for chemical analysis
- Development of applications using WAVE (Wireless Access in the Vehicular Environment)

### About Acionyx

- Founded in 1997
- Based in Cupertino, CA with operations in Southern California and Bangalore, India
- Facilities in California and India include Linux, Windows servers and necessary hardware/software environment for embedded systems development

### Partial List of Clients

- Texas Instruments
- Denso
- Next Wave Communications
- Sun Microsystems
- Plantronics
- Cisco Systems Inc
- LeapFrog