

Android™ Product Development Solutions

Bring Android products to life with best-in-class product development solutions from Bsquare

Highlights

- Product architecture
- Hardware design and prototyping
- Software development
- Environmental and compliance testing
- Quality assurance with TestQuest Pro
- Manufacturing support



Overview

The Android™ OS worldwide market in handsets continues to surge. By some estimates, it will be the Number two handset operating system by 2014. (Source: Cnet)

Device makers are drawn to Android because of their ability to use the platform to create their own version of an ideal mobile experience. Android is likely to become even more popular as Google's "Gingerbread" (Android 3.0 – released February 2011) is widely adopted and additional handset manufacturers take advantage of the new versions of platform.

Bsquare, an enabler of smart, connected devices, offers developers and manufacturers end-to-end product development solutions for Android. Experienced Bsquare device engineers and designers can help customers manage all phases of the design, prototyping, testing and production processes, ensuring products reach the market in a timely fashion with the best possible component and feature sets.

With the broad base Bsquare industry partner ecosystem, customers have easy access to an array of development tools and device solutions such as the Qualcomm Snapdragon™ Mobile Development Platform (MDP) for Android and embed security solutions.

Key Bsquare Services

Consulting and provisioning for platform development (hardware, kernel, middleware)
 Software and hardware development
 UX and UI development including graphic design, screenflow and prototyping
 Full custom user interface "skinning" capabilities
 Application porting – OS to OS (cross-platform development maximizing code reuse between platforms)
 Testing and Quality Assurance
 Program management

Key Bsquare Benefits

Deep, embedded experience from silicon to operating systems
 Broad based industry partner ecosystem
 Creative embedded user interface design capabilities
 Extensive wireless experience
 Full range of automated testing solutions including TestQuest Countdown™ and TestQuest Pro™
 Deep embedded security capabilities
 Source for Qualcomm Snapdragon Mobile Development Platform

Key Markets

Automotive – new-generation telematics and infotainment systems
 Consumer Electronics – set-top boxes for rich multimedia content
 Manufacturing – inventory control, production processes
 Medical – regulatory-compliant medical devices
 Military and Industrial – "hardened" and ruggedized devices
 Mobile – concept-to-market device development
 Retail – POS systems including kiosks and digital signage

Bsquare Development Solutions

Product architecture

- Define and refine customer requirements
- Select appropriate processor
- Develop appropriate interface
- Determine power requirements
- Provide access to mobile development platform tools

Hardware design and prototyping

- Circuit board layout and design
- Create optimal form factor
- Ensure best component mix

Software development

- Platform software development
- Application development
- Adobe® Flash® development
- HTML5 rendering engine development

Environmental and compliance testing

- Determine test protocols
- Conduct shock, humidity, heat-tolerance testing and more
- Safety tests for UL listing
- Management of certification processes and third-party testing

Quality Assurance with TestQuest Pro

- Advanced automated testing platform solution
- Automated tests for user scenarios
- Execution of long stress runs
- ANSI-compliant development environment
- Automated testing on mobile phones, PDAs, desktops, servers, notebooks, set-top boxes, HDTVs and more, using both hardware (physical) and software (virtual) connections

Manufacturing support

- Design global supply chain
- Source appropriate manufacturing partners
- Production cycle management for rapid time-to-market
- and lower costs

For more information, please visit www.bsquare.com. Or email us at sales@bsquare.com

At Bsquare

Bsquare is a solution provider to the global embedded device community. Our teams collaborate with OEMs at any stage in their device development to bring quality products to market faster. Since 1994, Bsquare has been a trusted partner to smart device makers worldwide.

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