

COPY

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Client: Qualnetics

Project: Web Page Copy

[Homepage]

[Top left] Qualnetics logo

[Top right – text] Your Strategic Partner for Windows Embedded Engineering

[Flash movie text] (*See separate file*)

News [hyperlinked]

-(Press releases on secondary page)

[News ticker scroll] "Attend Microsoft Mobile & Embedded DevCon, May 1 to May 3, and register for a free copy of Q-Bench™ Pro. [Click for details](#) [Hyperlink click triggers drop down text box]

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Are you attending the **Microsoft Mobile & Embedded DevCon** in Las Vegas, May 1 to 3? Qualnetics' chief architect, Mark Moeller, will present at the conference.

Come to his presentation and fill out our Q-Bench™ form. Then after the conference, we'll send you a complimentary copy of Q-Bench™ Pro – a \$295.00 value.

Speak with our vice-president of engineering about Qualnetics' services while you're at MEDC. Please call (425) 818-6074 to make an appointment.

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Qualnetics™ is a major sponsor at one of the most important telematics events: the **ORBCOMM Global Solutions Conference** in San Diego, June 25-27.

Other page links and photos: (As discussed)

[Engineering Page]

[Headline] Engineering

We have 22 years of hands on experience in embedded development. Although our customers often view us as the “go to” company for Windows CE, we realize every project is unique. And each customer has different requirements and expectations.

We can do an in-depth analysis of your project. We know the complete embedded development process intimately and can flag problem areas that might occur. We’ll provide solutions and help you make the right decision about which operating platform would work best for your project.

Of course, costs are also a prominent consideration. After creating numerous proposals for clients over the years, we’ve used this knowledge to devise specific automatic estimation tools. These deliver a quicker and more accurate assessment than the manual methods used by many other companies.

[Subhead] Project Design and Management: Ready To Assist Your Team

Our proven development methodology and framework helps bring your idea to life. With knowledge of the latest technology and devices, our experienced project managers and architects can help you design, organize, and manage your project. We work with your engineers through all the phases of:

- Planning
- Research
- Testing
- Deployment
- Management
- Support

[Subhead] Board Support Package (BSP) Development: Build, Improve, And Innovate

Qualnetics™ can help you with one of the most critical areas of your product development – building and optimizing your BSP. Without a great BSP, you’ll never be able to show your customers the potential for your product. Our engineers have helped customers develop robust, high-performance BSPs across a wide range of hardware platforms.

[Subhead] Device Driver Development And Optimization: Precision Tuning For High Performance Devices

The Windows CE Platform Builder is a great reference for understanding the basics of device driver development. While it includes a set of sample device drivers, it’s critical to understand they’re not meant as production drivers. These samples will never achieve acceptable performance levels.

Our team helps speed your time to market by providing superior device drivers for your BSP that support numerous components, such as:

- Video controllers
- DirectX
- File storage systems (hard disks, CF and SD)
- Network stacks
- Peripheral connectivity protocols like USB

And we consistently achieve significant performance gains for our customers. Some of our notable successes include:

- A DirectDraw display driver with a 10x performance improvement over the Windows CE sample code
- A serial driver with an 80% reduction in CPU usage
- A 3x improvement in the speed of the standard Windows CE Compact Flash device driver

[Subhead] Custom Development: The Right Fit For Your Project

Let Qualnetics™ put together a proposal for your organization and benefit from our depth of engineering knowledge in this specialized sector.

- Applications built to specifications
- Hardware and intermediate drivers
- Applications
- User Interfaces
- Implementing licensing and certificates for platforms like Smartphone

[Subhead] Platform Porting Services: What You Need To Know About Moving To CE

Want to understand and take advantage of the latest releases of Windows CE? We can help you analyze the pros and cons of porting your platform to the latest release. And then we can either support your engineers during the effort or do the port for you.

[Subhead] Code Review, Testing, And Optimization: Systematic Analysis To Find And Solve Problems Sooner

We have years of experience optimizing system and application software on Windows CE, Windows CE .NET, Windows Mobile and Windows Automotive platforms. Qualnetics™ can perform targeted or complete system analysis of any Windows CE project, software, application, or driver to spot performance bottlenecks and then architect and implement solutions to these problems.

[Subhead] Custom Device Drivers

Qualnetics™ has architected drivers from conception to final product. Our extensive experience covers a variety of platforms and operating systems. We provide unique functionality to existing drivers, which can achieve considerable cost savings.

[Subhead] Training: Key To Better Team Productivity

Do you need to learn more about any of the Windows CE platforms?

- Capabilities
- Requirements
- Resources
- Project planning guidelines

Have a project and want help understanding the special requirements for developing on Microsoft Windows CE .NET?

We have found the following to be good candidates for training programs: software vendors, hardware vendors, and equipment manufacturers.

The unique training approach at Qualnetics™ is both project focused and task focused. We work with you to discover the specific areas where your team needs help.

Then we match you with an engineer that has applicable, current, real-world development experience. We don't believe in "trainers" who are experts in course material yet soft on practical application. Every Qualnetics™ engineer cycles through client engagements into training assignments as available.

Let us tailor a training program for your team!

If you have any questions about our services, please [contact](#) us.

[Q-Bench Page]

[Headline] Q-Bench™ Pro

[Subhead] Now Supporting Windows CE 6.0

Designed for Windows CE engineering teams, Q-Bench™ Pro is an optimization and performance benchmarking tool. It provides engineering diagnostics and evaluates modular and overall system performance on devices using Windows CE, version 3.0 and above. It's now used throughout the CE embedded development industry.

Originally, Qualnetics designed Q-Bench™ Pro for internal use on client projects. Since our focus is on engineering, we didn't plan to make it available as a commercial product. But customer demand for such a tool resulted in the commercial release of Q-Bench™ Pro.

[Subhead] Helps With Vital Decisions

Many developers have difficulty determining what's the best hardware platform to use in creating a product. Q-Bench™ Pro helps them make an informed decision by comparison testing one platform against another

Board Support Package (BSP) developers use it to gauge and compare efficiency of byte-aligned vs. word-aligned writes.

Manufacturers who outsource Windows CE software and BSP development use it to track overall and specific efficiency throughout the development cycle. Q-Bench™ Pro delivers quick feedback on performance degradation.

[Subhead] Q-Bench™ Pro: Specifications At A Glance

The Q-Bench™ Pro diagnostic set provides performance metrics for:

- CPU
- Memory
- File system
- GDI graphics
- DirectDraw

And can function across multiple platforms, including:

- Pocket PC
- Smartphone
- Windows Mobile
- Generic Windows CE builds
- Headed and headless builds
- Tiny kernel

It supports benchmarking for ARM, ARMV4, ARMV4I, THUMB, MIPS (CE 3.0 and above), MIPSFP, MIPSII, MIPSII_FP, PPC, SH3, SH4, and X86 processors.

Use Q-Bench™ Pro throughout the development process:

- Comparatively analyze A/B hardware platforms in your pre-production process -- invaluable when determining a Board Support Package (BSP) platform or SOC/SBC vendor
- Use to gauge and compare efficiency of byte-aligned vs. word-aligned writes
- Perform between-builds analysis, helping to identify performance bottlenecks
- Through a command line interface, benchmarks can be run individually, in batches, or through an input file
- Its graphical user interface (GUI) makes best use of the displays on Smartphones, PocketPC, and other generic Windows CE devices
- CETK (CE Test Kit) integration – Q-Bench™ Pro includes an interface for running benchmarks through the CETK, or as a standalone TUX test for Smartphones, Pocket PCs, and generic Windows CE devices
- It can benchmark:

- CPU Linpack, Whetstones, Dhrystones v1.1, Dhrystones v2.1,
- Memory Page Fill Read/Write Cached and Uncached
- File I/O Read, Write, Copy * Microsoft Windows CE devices are 32 bit devices, and may only be optimized for dword (32 bit) data alignment
- GDI TextOut, Blt, 1 Surface, 2 Surface, Lines, Ellipses, Polygons

License price: \$295 per workstation.

For Q-Bench™ Pro purchase information, please email sales@qualnetics.com or phone (425) 818-6074.

For technical assistance with Q-Bench™ Pro, visit our [Support](#) page.

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Get A Free Copy Of Q-Bench™ Pro At MEDC 2007

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[Telematics Page]

[Headline] Telematics

A large part of Qualnetics’ focus is on the telematics field. Our chief architect, Mark Moeller, was a co-founder of the Microsoft Automotive Group. And he applies that engineering experience to help devise innovative telematic devices, especially for commercial fleet management, tracking and diagnostics.

We’ve helped develop engine control modules as well as wireless communications systems that provides GPS vehicle tracking and route planning.

[Subhead] Client Projects

Qualnetics was key in the development of Delphi’s Truck Productivity Computer. This is a full-featured information system for fleet management, fleet diagnostics, and mobile productivity improvement for commercial vehicles.

Developed using Windows® Automotive OS, Truck PC fits in a standard-sized radio package but provides a wide array of features, such as an interactive text-to-speech system, information on demand, and enhanced entertainment.

Qualnetics was actively involved in the software design. As well, we optimized the performance and then carried out extensive hardware and software debugging and failure analysis. We also provided Delphi staff with training.

The Wireless Matrix Telematics Communications Unit (VTCU) for commercial fleet vehicles was another product we were extensively involved with. This interior mounted system has integrated GPS, high-speed broadband cellular capability, and WiFi to communicate with external electronic devices.

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Visit Us At Orbcomm This June

Qualnetics™ is a major sponsor at one of the most important telematics events: the **ORBCOMM Global Solutions Conference** in San Diego, June 25-27.

[Windows CE Page]

[Headline] Windows CE

Why Windows CE? We believe it offers many advantages over other operating systems.

It was specifically created for embedded development and is a real time OS. With enormous flexibility, multiple options, and a robust graphical interface, Windows CE delivers speed and efficiency. This is important when time to market is especially tight.

The Windows CE line of software continues to grow and will provide even more advanced tools for embedded development.

Qualnetics™ has been developing client projects with CE since its first release. Our knowledge in this operating system is deeper than just about any other embedded software development company.

With engineering expertise in all CE environments, we've created numerous custom applications used in SmartPhone, Pocket PC, networking, and media devices.

We've also developed advanced skills in using this OS for [telematics](#).

Our knowledge and broad experience with Windows CE has resulted in Qualnetics™ being designated as a:

- Windows Automotive Partner
- Windows Embedded Solutions Provider
- Windows Embedded Partner
- Windows Mobile Solutions Partner

See [Engineering](#) for a complete description on how we can help you with Windows CE embedded development.

[Careers Page]

[Company Page]

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[Headline] Clients

Alpine Electronics
Centrality Communications
Clarion
Delphi
Freightliner
LSI Logic
Microsoft
MobileAria
Motorola
Viaspace
Wireless Matrix

[Headline – right column] About Qualnetics™

Qualnetics™ specializes in embedded software development using Windows CE. Since its founding by Microsoft veterans in 1999, Qualnetics™ has garnered a growing reputation for its engineering excellence in this industry.

We've focused on CE since its first release. Our team has finely honed their skills to unleash the full power of Windows CE in all its configurations. And we've achieved numerous Microsoft designations, including *Windows Automotive Partner*, *Windows Embedded Solutions Provider*, *Windows Embedded Partner* and *Windows Mobile Solutions Partner*. Our clients range from start-up ventures to Fortune 500 companies.

[Subhead] Pioneers And Innovators In Telematics

Much of our expertise is devoted to [telematics](#), especially for commercial vehicle fleet management, tracking and diagnostics. Our chief architect, Mark Moeller, was one of the co-founders of the Microsoft Windows Automotive Group.

As well as developing innovative telematic applications, our engineers are thoroughly experienced in testing, validation, quality assurance, and remote diagnostics to reduce the chances of costly system failures.

[Subhead] Our Full Attention For The Full Development Cycle

Many software engineering firms take on so many projects that it strains the resources of their staff. The chief architect often spends minimal time on a development initiative before moving on to the next client's job.

At Qualnetics™, we take on only a limited number of projects. This ensures your project gets the full attention of our engineering talent. Our goal is always to provide dedication to detail while still meeting the tight deadlines often required by clients in this industry.

[Subhead] Qualnetics™ Executives

[Contact Page]

[Headline] Contact

For Q-Bench™ Pro technical support, visit [Support](#).

Qualnetics™ Woodinville Office
14623 NE North Woodinville Way
Suite 107
Woodinville, WA 98072
Tel: (425) 818-6074
Fax: (425) 671-0586

[Link] [Driving Directions](#)

Qualnetics™ Bellingham Area Office
6197 Everson Goshen Rd
Everson, WA 98247
Tel: (360) 733-4151

[Link] [Driving Directions](#)

Mailing address
14241 NE Woodinville-Duvall Road #176
Woodinville, WA 98072

Email: sales@qualnetics.com

[Support Page]

[Headline] Support

If you've paid for Q-Bench™ Pro and require technical assistance, you may use our [Forums](#) section or [Premier Email Support](#).

If you've received a complimentary copy of Q-Bench™ Pro and require technical assistance, please visit our [Forums](#) section.

For sales inquiries, visit our [Contact](#) page.

Forums (sub page of Support) This section currently under construction. Check back soon. (Eventually a name and email capture form to be here.)

Premier Support (sub page of Support) Form with Username, Email Serial Number