



# **BugHuntress QA Lab**

**Outsourcing Software Testing Services**

Company Profile

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# 1 General Information

Excellent work done to our specs, on time, and with great communication! I'm very pleased with my experience with BugHuntress.

Darren Leno  
USA

BugHuntress QA Lab offers outsourcing QA and testing services. We help IT vendors to succeed with their software products in the market as well as assist enterprises and investors to ensure that bespoke or innovative IT solutions meet requirements and work properly.

The BugHuntress core competence is testing of embedded, mobile, wireless, Web 2.0 / WAP, and e-Business applications. Strong educational and engineering background, 7-year hands-on experience, a number of unique 'know-how' and own automated tools, creative approach and ISO-style management - this all allows us to provide our customers with thorough and cost-effective services.

BugHuntress QA Lab is a division of QArea Group. With about 150 employees, QArea is one of the leading software developers and IT services providers in Ukraine.

Today's keen global competition forces to develop software "faster and cheaper". However even the most "fast and cheap" IT products should be of high quality and perfect usability. At BugHuntress QA Lab we see our mission in making our customers' software more reliable and user-friendly, more competitive and successful in the market.

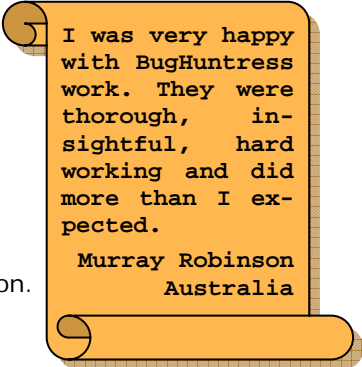
## 1.1 Company in brief

<b>Business name</b>	<b>BugHuntress QA Lab</b>	
<b>Corporation</b>	A division of QArea Group (www.QArea.com)	
<b>Founded</b>	2001	
<b>Basic activities</b>	Outsourcing software testing services - automated and manual Dedicated testing teams service Independent Verification & Validation (IV&V) of software products QA/QC support and quality assessment in IT outsourcing projects Consulting in the field of testing methodology, test planning and execution	
<b>Internet address</b>	www.BugHuntress.com	
<b>IT Community</b>	Mobile Monday Ukraine	(www.mobilemonday.com.ua)
	Mobile Monday Moscow	(www.momoscw.ru)
<b>Headquarters</b>	O.Yarosha Str. 25-A, 3 <sup>rd</sup> floor Kharkiv, UA-61072 Ukraine  E-mail: info@bughuntress.com Phone: +1 619 243 8714; +38 057 760 2105  <i>Time zone:</i> Eastern European Time (EET) <i>Standard time: GMT+2, summer time: GMT+3:</i> +1 hour for Germany and Benelux; +7 hours for the Eastern coast of the USA.	
<b>Representative office</b>	180W 20th St. apt. 5g New York, NY 10011 USA	

## 2 Services

BugHuntress QA Lab offers QA / Testing and IT outsourcing services:

- ◆ Automated and manual software testing;
- ◆ Dedicated testing teams service;
- ◆ Independent Verification & Validation (IV&V) of software;
- ◆ QA/QC support and quality assessment in IT outsourcing projects;
- ◆ Consulting in the field of testing methodology, test planning and execution.



I was very happy with BugHuntress work. They were thorough, insightful, hard working and did more than I expected.

Murray Robinson  
Australia

### 2.1 Industries and domains

- Telecom, Mobile & Wireless (*VoIP, GPS, Wi-Fi, GPRS*);
- Mobile content and applications (*Symbian, WinCE/WinMobile, BREW, J2me; porting*);
- Consumer electronics manufacturing (*Embedded software*);
- e-Business, Web 2.0 / WAP services (*ERP, CRM, e-Shops, e-Auctions, e-Billing, portals*);
- Multimedia & Entertainment (*online, mobile, desktop games and multimedia applications*);
- Data protection, security, antivirus.

### 2.2 Software testing: methodology, technologies and competence

To provide a customer with comprehensive conclusions regarding software quality the BugHuntress team performs the following testing activities and testing methodology consulting:

1. **Test planning:** collecting of requirements and analysis; test plan, test scenario, test cases preparation. Automated testing tools assessment and selection. Test planning is carried out based on IEEE Standard for Software Test Documentation (IEEE Std 829-1998) and other industry specifications.
2. **Testing environment and harness preparation,** test automation framework design and development, test scripts creation. At BugHuntress QA Lab there is a large set of testing equipment, system software, and Web middleware. This ensures creation of proper testing environment and essentially decreases the time for testing configurations deployment.
3. **Testing execution.** Manual and automated software testing:
  - Functional
  - Bug and functional regression
  - Load / Performance / Stress
  - Usability
  - Compatibility
  - Configuration
  - Localization
  - Documentation (see in more detail in the section [Skills](#))

For each of these types of testing we have established approaches, proven testing tools, and adjusted reporting documents templates. Used testing techniques:

- Black Box / Gray Box / White Box testing
- Ad Hoc / Exploratory testing
- Scripted testing

For automated testing BugHuntress team uses the industry standard testing tools like *Mercury Quick Test Professional and Load Runner, AutomatedQA TestComplete, Selenium* (see in [Skills](#)).

When off-the-shelf tools are insufficient, our own automation tools / Add-Ins are created and utilized. It is especially important in the case of mobile and wireless applications because these technologies are developed very fast and a lot of different devices are to be tested.

4. **Testing reporting,** analysis and bug fixing management.  
We use the industry recognized bug tracking tools like *Mantis, Jira, BugZilla*. Online mode allows both parts (the managers and IT specialists on a customer's side as well as BugHuntress testers) to work as a single team and ensures the comprehensive customer's control.
5. **Final testing reporting.** Defects analysis and recommendations regarding improvement of the tested software and the process of its development.

The services can be provided at planning, development or beta-testing stages of software life-cycle.

### Independent testing and IV&V vs software developers' testing

Customers are usually surprised when they compare the results of testing provided by the in-house team with the results of the independent testers - as a rule, the external team finds more bugs. The reasons of this phenomenon are:

- Testing is a particular engineering discipline. It requires special methodologies, tools, knowledge, skills, experience, and peculiar talent.
- The aim of programmers is to prove that the program works. Simplistically, the task of testers is to detect faults (i.e., prove that the program *doesn't* work) and make sure that the program meets user's requirements and is convenient in usage. These two views at the program are quite different.
- Programmers get used to the code, and can unconsciously avoid some bottlenecks in the program when they test it. It is an objective process. That is why all software development methodologies require *Review* activities. In its essence the independent testing is one of them.
- At software companies junior programmers are rather often engaged as testers. Of course, they consider testing only as the first step to programming. As a result, they don't have a stimulus to be properly trained in testing or to improve their testing view and intuition.
- Tight deadline or limited budget can compel an on-site or outsourcing development team to neglect the quality. The Independent Validation & Verification (**IV&V**) is the only way to reveal that.

## 2.3 Dedicated Testing Team (DTT) service

Dedicated testing team allows a customer to expand their own capabilities in the most cost-effective and seamless manner. DTT usually works as remote employees of the customer's team: all DTT members are personally selected; customer's managers control the project, and so on.

In the case of DTT the customer pays salaries to DTT members and leasing fee (overhead costs including facilities renting, infrastructure maintenance, accounting and lawyer support, taxes, etc.).

DTT combines the advantages of outsourcing (costs reduction; capabilities, infrastructure and skills leasing strictly at the time required) with tight synchronization with your development team. They can work with you from the planning phase and be a part of the development strategy.

If large DTT is required (usually more than 20 persons), then Offshore Testing Center (OTC) can be established as a more preferable option.

## 3 Why BugHuntress QA Lab

### 3.1 Expert testing: Embedded systems & Web 2.0

- ◆ **Expert-level testing services.** The quality of testing can be crucial for the future of the tested software. Therefore, good reputation and trust of customers are extremely important for a testing company.

BugHuntress team provides comprehensive unbiased testing services which are focused on the results and customers' complete satisfaction. Properly established processes, a set of powerful testing tools and highly trained staff comprise the reliable basis for successful projects implementation and real saving of your time and money.

- ◆ **Effective 'know-how' and innovative testing techniques.** It can be too expensive to test mobile or Web applications in the real conditions. In such cases testers have to simulate the environment trying to provide as accurate testing results as possible and reasonable from the standpoint of exploitable resources (personnel, time, and budget).

BugHuntress specialists have developed a number of 'know-how' and special techniques which speed up the testing and reduce its price preserving high testing quality. Among them:

- Methods of GPS positioning testing;
- Methods of fast system environment installations;
- Methods of different embedded equipment emulation;
- Methods and practices of GPRS connection setting up;
- Load testing practices for Web applications testing.

Our cooperation with BugHuntress team has a long history, multiple projects, dating to early 2005. Compared to other companies, BugHuntress team provides top notch quality of testing services.

Konstantin Martynenko  
Simple Devices, USA

- ◆ **Unique usability testing experience.** Usability standards for WAP, mobile applications (e.g., Symbian S60 Visualization and Graphic Design Guideline, UIQ Style Guide), and embedded systems are quite different from approaches used for desktop programs.

BugHuntress engineers have accumulated unique knowledge base and experience in this field and provide high quality usability testing. Good usability is extremely important for users' acceptance.

- ◆ **Competent exploratory testing.** One of peculiarities of mobile, embedded and Web applications testing is that it is difficult to describe all probable users' actions in test cases. That is why the so called exploratory testing is used. In order to be efficient, this technique requires large experience and strong intuition. At BugHuntress exploratory testing is executed by senior testers. The deep understanding of the mobile and embedded devices architecture enable to effectively perform the exploratory testing and find very complex bugs.

**Facts: Trigenix**  
(acquired by Qualcomm)

The task was to optimize testing process for Symbian UI editing application. Thorough research gave an idea that time effort can be reduced by establishing automated testing using Symbian remote control and Rational Robot test tool.

Already in 2 months the Trigenix's testing costs were **150%** less and bugs detectability was about **20%** higher.

### 3.2 Outsourcing to Kharkiv - "Silicon Valley" of Ukraine

- ◆ **Capabilities and complexity outsourcing.** Kharkiv, where the BugHuntress production office is situated, is one of the largest technology, R&D and education centers in Ukraine and other countries of the former USSR. 25 higher schools and universities (which is more than in Kiev, the capital of Ukraine), a lot of scientific organizations are all sources of highly-educated staff and knowledge base.

Educational and engineering level of Kharkiv IT specialists has deep background: Kharkiv Emperor's University (now - Kharkiv National University) was founded in 1805 and is one of the oldest higher schools in the Eastern Europe. Three Nobel Prize Laureates and a lot of well-known scientists studied or worked in Kharkiv. Nowadays it intensively cooperates with universities of the Great Britain, France, Germany, the USA and other countries.

Kharkiv is one of the main intellectual centers of the former USSR. The research institutions in many areas - from nuclear physics and artificial crystals growing to spaceship hardware and software development - are located in Kharkiv.



- ◆ **Cost saving up to 50% and more.** Offshore outsourcing reduces testing costs due to the difference in manpower and infrastructure prices in different countries. However, testing also implies saving on utilization of existing infrastructure, automation tools and trained staff being rather expensive and long to establish and maintain at the highest level.
- ◆ **Western business culture, close geographical and cultural ties with EU countries.** Ukraine is a European country. Western business mentality and business culture become more and more customary here. A lot of European and world standards are adopted as national ones.

BugHuntress has been working with customers from the USA and the EU for 6 years. All contract documentation is thoroughly worked out and corresponds to the international practice and a customer's country legislation. Communication is carried out in English.

### 3.3 Reliable partnership: Integrated part of your team

We build relations with our customers on the principles of reliable partnership and cooperation.

- ◆ **Communication as a key to successful project implementation.** We try to work with a customer like one team. Regular, open communication is the main standard. E-mail, Instant Messengers (MSN, Skype, ICQ), phone, online project management and bug tracking systems are used to eliminate any barriers in our dialog and ensure perfect project implementation.
- ◆ **Flexible adjusting to your testing practice.** We use a proven set of approaches, documents templates, and testing tools. At the same time we are ready to adjust our processes according to customer's established procedures and arrange them in the most convenient way for you.

- ◆ **On time and on budget delivery.** BugHuntress project managers have large experience in task evaluation and planning. As a result, time schedules and testing plans are very close to the actual values and, correspondingly, the projects are performed on time and on budget.
- ◆ **Convenient business models.** We offer three basic business models for offshore software testing - fixed cost, time and material (T&M) or dedicated team ("cost plus" scheme). They can be combined or modified at any stage of cooperation.
- ◆ **Proper contracting.** All contracts templates are agreed and validated by American (for USA and Canada) and German (for EU) lawyers. They were engaged in a lot of projects. The contract can be concluded with our representative office (a USA-registered company) or with the Ukrainian office.
- ◆ **Strict adherence to the customer's privacy and security.** The Non-Disclosure Agreement can be signed to protect nonpublic customer information if it is used during the project implementation. If necessary, we prepare dedicated hardware/LAN environment with special authorization, backup, configuration management according to required level of security.
- ◆ **Customer's comprehensive control.** You can control the project implementation at any stage. Your team has access to reporting tools and all documents used during the project.  
 Status reports are delivered on daily and/or weekly basis. Reports contain not only results of performed work but also a plan for a next day. As a result, the customer's team controls the project in the dynamics and timely corrects the process.  
 The practice shows that one of the effective ways to cooperate is assigning a dedicated IT manager based on the client's side. Such manager coordinates all activities, tracks changes of requirements, helps to quickly resolve issues, and control the progress of work.
- ◆ **Adaptable testing teams.** BugHuntress testing teams can be resized and readjusted. If some testers become surplus for your project, you won't have to pay for them, thus avoiding the problem of redundancy.

We are proud that among our customers are such companies as

- **Trigenix (Qualcomm),**
- **Simple Devices/ Universal Electronics,**
- **Taptu**

and many others.

## 4 Examples of Completed Projects

### 4.1 Embedded, mobile applications

Description	Activities
<p><b>Wurlitzer Digital Jukebox</b></p> <p>WinCE Embedded Media player for playing, storing and recording audio tracks. Java platform.</p>	<p>Manual black-box testing, ad hoc testing: functional, performance, integration, acceptance, usability.</p> <p>Over 4800 hrs. 1 senior test engineer, 2 test engineers.</p>
<p><b>Taptu.com</b></p> <p>Taptu.com is a search engine for mobile phones. It is an innovative system built on the basis of Web 2.0 and mobile technologies. It adapts the content to peculiarities of diverse mobile devices.</p>	<p>Manual black-box and automated testing: functional, regression, configuration, usability.</p> <p>Ongoing project. 1 team leader, 3 test engineers.</p>
<p><b>Secure Suite for different PDA's</b></p> <p>PDA Secure Suite is a tool for 4 handheld platforms: Palm, Pocket PC, Symbian, RIM (BlackBerry). It enables users to gain full control over the access to the data stored on handheld devices.</p>	<p>Manual black-box testing: functional, regression, stress, usability, configuration, integration, installation.</p> <p>Over 4300 hrs. 3 test engineers.</p>
<p><b>Fexius</b></p> <p>Web client-server application with mobile phones clients. Allows downloading a favorite phone desktop theme via WAP and/or GPRS. Supported client-platforms: Symbian, MS Smartphone, MIDP.</p>	<p>Manual and automated black-box testing: functional, usability, configuration, integration.</p> <p>Emulating GPRS. Over 4200 hrs. 1 team leader, 4 test engineers.</p>


## 4.2 Web / WAP applications

Description	Activities
<p><b>Ring Pix</b></p> <p>E-commerce Web application with a WAP subsystem. Allows buying and downloading wallpapers, ringtones, games and other application via WAP and/or GPRS.</p>	<p>Manual and automated black-box testing: functional, regression, interface, integration. Technical writing. Revision of configuration. Over 900 hrs. 3 test engineers.</p>
<p><b>Momentville.com</b></p> <p>Web 2.0 platform for personal wedding website creation. It's easy to use and includes drag and drop, edit in place, and lots of other features.</p>	<p>Automated testing (Selenium IDE, Selenium RC, NUnit): functional, regression, UI testing. Over 200 hrs. 1 team leader, 1 test engineers.</p>
<p><b>Real Poker Online</b></p> <p>Client-server web-application under Java Platform for simulation of card games (Texas Hold'em poker) played by groups of players. Option of betting real money or spots.</p>	<p>Manual black-box testing: functional, stress, usability, bet-logic. Load simulation. Over 2500 hrs. 1 senior test engineer, 2 test engineers.</p>
<p><b>Minggl.com</b></p> <p>Minggl toolbar is moving freely about the Web while staying connected to multiple social networks. As a user browses other sites, the Minggl platform notifies of key events (mails, friend activity, etc.).</p>	<p>Manual black-box testing: Functional, regression, interface testing, integration testing. Over 400 hrs. 1 team leader, 2 test engineers.</p>
<p><b>WorldPass4Fitness.com</b></p> <p>E-commerce database (Oracle 8i or MS SQL Server) driven application. Includes website with credit card billing system. The back-end is developed in Java.</p>	<p>Manual and automated testing: functional, regression, interface, integration. Over 700 hrs. 4 test engineers.</p>
<p><b>YoungCuts.com</b></p> <p>Film Festival Website with specific integrated modules: forum file downloading system, voting, mailing, e-commerce, comments system, obscene words filter, banner advertisements, etc.</p>	<p>Manual and automated testing: functional, regression, interface, load, secure, integration. About 600 hrs. 3 test engineers.</p>

## 4.3 Business applications

Description	Activities
<p><b>ERP system</b></p> <p>ERP system for small and medium enterprises which is widely used in diverse business domains in the Western Europe.</p>	<p>Manual black-box testing, ad hoc testing: functional, regression, integration, usability. Ongoing project. 1 team leader, 3 test engineers.</p>
<p><b>CSM Fax</b></p> <p>Client-server application for sending faxes via Internet. It enables user to create fax images, address them to fax machines worldwide, and send them.</p>	<p>Manual black-box testing: functional, usability, configuration, installation, integration testing. Over 2000 hrs. 1 senior test engineer, 2 test engineers.</p>
<p><b>Business data presentation system</b></p> <p>Receives files with statistics and economical data, parses them and saves data to the database. A separate module is used to generate presentations.</p>	<p>Manual black-box testing: functional, stress, integration, documentation, configuration, installation, usability, regression. Technical writing. About 5000 hrs. 1 team leader, 3 testers, 1 scripiter.</p>

#### 4.4 Testing 'know-how': GPS navigator for PDA

Project Name	GPS Navigator for PDA	
<b>Description</b>	A GPS navigation and route search application.	
<b>Key challenges</b>	Test the navigator functionality completely, including real-life environment. In fact, it was necessary not only to validate the shortest route search but also test an afield navigation.	
<b>Solution</b>		<p>For testing purposes we created a special software system which allowed emulating the real GPS receiver without its physical presence.</p> <p>The system permits laying the routes on the map, setting the travel speed at different paths and other necessary parameters. The emulator yields data that 100% coincide with data received from real GPS receiver.</p> <p>The system allowed developing and testing the most part of the application without the necessity of physical movement through locality, which significantly reduced project development, testing time and cost.</p> <p>The emulator allowed the testing team to run a substantially larger scope of tests and provide higher reliability of application in comparison to testing held only using the real GPS receiver. In particular, with the help of the emulator we performed testing of many-days travels.</p> <p>The emulator works under Windows, Windows Mobile, WinCE, Unix, J2me.</p>
<b>Team &amp; duration</b>	Over 1200 hrs. 3 test engineers	

### 5 Management

All projects at BugHuntress are carried out on the basis of ISO-9000 style management system. The distinguishing feature of BugHuntress approach is a strong emphasis on the processes and activities documenting. It is especially important in the case of offshore outsourcing when the project is implemented by a remote team, and comprehensive communication and documenting are crucial for the delivery on time and on budget.

At BugHuntress testing processes are completely documented. All project stages, activities and results are logged. Testing strategy, testing plan, workload document, different checklists, use cases, test cases, daily/weekly reports and plans - this is only a part of preparing documents.

#### 5.1 Quality management

The main goal of our quality policy is to meet the quality standards of the customer. It is aimed at providing, controlling, and improving the process and activities quality at all phases of testing cycle. Quality Management comprises of:

- Quality Planning (QP): defines quality system policies, objectives, requirements and explains how they will be implemented, achieved or met;
- Quality Control (QC): ensures that each process satisfies the quality requirements;
- Quality Assurance (QA): examines that the system meets quality requirements;
- Quality Improvement (QI): the organization efficiency improving.

A Quality Assurance Representative (QAR) is assigned to each project. The QAR is responsible for the following activities:

- Control of all processes of project implementation;
- Evaluation of best practices and weak points with subsequent implementation of best practices and avoiding weak points at the company level;
- Participation in reviews;
- Preparation of proposals for process improvement.

## 6 Staff

### 6.1 Structure

Currently the BugHuntress team consists of real professionals:

Position	Part, %
Project Manager	8
Team Leader	11
Tester	72
System and RDBMS administrator	6
Configuration manager	3

### 6.2 Education Level

35% of our specialists have MS degree in computer science, mathematics or engineering (telecommunications, radio-electronics, geodesy, etc.). Other employees have BS in these areas or are certified in technical or computer fields.

Our employees have certificates in programming/testing tools and software system building technologies (such as *Microsoft Certified Solution Developer*), and are winners of national IT contests.

### 6.3 Skills and Competences

The table below summarizes practical skills of BugHuntress specialists.

<b>Main industries</b>	<ul style="list-style-type: none"> <li>• Telecom, Mobile &amp; Wireless</li> <li>• Consumer electronics manufacturing</li> <li>• E-Business, Web 2.0 / WAP services</li> <li>• Multimedia &amp; Entertainment</li> <li>• System software</li> <li>• Data protection and security</li> </ul>														
<b>Testing types / activities</b>	<table border="0"> <tbody> <tr> <td>○ Functional</td> <td>○ Usability (GUI)</td> </tr> <tr> <td>○ User Acceptance</td> <td>○ Compatibility</td> </tr> <tr> <td>○ Scalability</td> <td>○ Configuration</td> </tr> <tr> <td>○ Load / Performance</td> <td>○ Installation</td> </tr> <tr> <td>○ Stress</td> <td>○ Portability</td> </tr> <tr> <td>○ Recovery</td> <td>○ Localization</td> </tr> <tr> <td>○ Security</td> <td>○ Documentation</td> </tr> </tbody> </table>	○ Functional	○ Usability (GUI)	○ User Acceptance	○ Compatibility	○ Scalability	○ Configuration	○ Load / Performance	○ Installation	○ Stress	○ Portability	○ Recovery	○ Localization	○ Security	○ Documentation
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○ Load / Performance	○ Installation														
○ Stress	○ Portability														
○ Recovery	○ Localization														
○ Security	○ Documentation														
<b>Testing techniques used</b>	<ul style="list-style-type: none"> <li>• Black Box / Gray Box / White Box</li> <li>• Ad Hoc / Exploratory testing</li> <li>• Scripted and automated testing</li> </ul>														
<b>Automated testing tools</b>	<ul style="list-style-type: none"> <li>• Functional and regression testing: <ul style="list-style-type: none"> <li>○ Mercury Quick Test Professional</li> <li>○ Selenium</li> <li>○ AutomatedQA TestComplete</li> <li>○ Mercury WinRunner</li> <li>○ Rational Functional Tester</li> </ul> </li> <li>• Load &amp; stress testing of Web applications: <ul style="list-style-type: none"> <li>○ Mercury Load Runner</li> <li>○ Rational Performance Tester</li> </ul> </li> </ul>														
<b>Own automation tools</b>	<ul style="list-style-type: none"> <li>• TestLa SL2x 1.0 beta (<i>functional, regression, and load testing for Symbian S60 and S80 platforms</i>)</li> <li>• BugHuntress Test Siute (<i>Palm applications testing</i>)</li> </ul>														
<b>Know-how, special testing technologies</b>	<ul style="list-style-type: none"> <li>• Load testing techniques</li> <li>• GPS positioning testing approach</li> <li>• Method of fast testing environment configuration</li> <li>• Hardware emulation methods, etc.</li> </ul>														

<b>Bug Tracking tools</b>	<ul style="list-style-type: none"> <li>○ Mantis</li> <li>○ Jira</li> <li>○ Mercury Test Director</li> <li>○ BugZilla</li> <li>○ Test Track</li> </ul>
<b>Test planning and test cases preparations tools</b>	<ul style="list-style-type: none"> <li>○ MS Project</li> <li>○ Microsoft Office, Visio</li> <li>○ Rational Rose</li> <li>○ BPWin, ERWin</li> </ul>
<b>Platforms / Operating Systems</b>	<ul style="list-style-type: none"> <li>• PC: <ul style="list-style-type: none"> <li>○ Microsoft Windows 98/NT/2000/2003/XP/Vista</li> <li>○ Linux, Unix</li> <li>○ Mac OS</li> </ul> </li> <li>• Mobile: <ul style="list-style-type: none"> <li>○ Microsoft Pocket PC, WinCE, Windows Mobile</li> <li>○ Symbian</li> <li>○ BREW</li> <li>○ J2me</li> <li>○ Palm OS</li> </ul> </li> </ul>
<b>Mobile / Wireless technologies</b>	<ul style="list-style-type: none"> <li>○ GPS</li> <li>○ Wi-Fi</li> <li>○ BlueTooth</li> <li>○ VoIP</li> <li>○ GPRS</li> </ul>
<b>Net technologies and protocols</b>	<ul style="list-style-type: none"> <li>○ TCP/IP, SSH</li> <li>○ HTTPS, SSL</li> <li>○ SMTP, POP</li> <li>○ SOAP</li> </ul>
<b>DBMS</b>	<ul style="list-style-type: none"> <li>○ MS SQL Server, MS Access</li> <li>○ Oracle</li> <li>○ mySQL, PostgreSQL</li> </ul>
<b>Languages</b>	<ul style="list-style-type: none"> <li>○ SQL, PL/SQL, T-SQL</li> <li>○ C++, C#, Java, Object Pascal</li> <li>○ XML</li> <li>○ Perl, PHP, Python, JavaScript</li> </ul>
<b>IDE/Compilers</b>	<ul style="list-style-type: none"> <li>○ Microsoft Visual Studio .NET</li> <li>○ Delphi</li> </ul>

## 7 References

For references feel free to ask at [info@BugHuntress.com](mailto:info@BugHuntress.com).

## 8 "We test the Future"

BugHuntress team tests the software and embedded systems which could be the IT mainstream for future years: mobile and wireless applications and gadgets, customer electronics, multimedia tools and games.

We help to make this software more qualitative, more attractive for users, more cost-effective and more competitive.

And we are genuinely proud when our customers meet the deserved success:



**Thank you guys, you did a great job!**

We really appreciated the efforts that you put into the many test projects that you completed for us. Based on your recommendations, we implemented your suggested method of test automation in our QA department and it yielded excellent results. I'd like to extend my special thanks for the quality of your project management - we observed a high degree of professionalism and care taken over our projects. You went far beyond the contribution that we would normally expect from an outsourcing company.

Stephen Ives  
Jamtap Limited  
UK