



## Application Engineering Services

### Sentilla can jump start your pervasive computing projects

Whether you have an idea for a pervasive computing application or want end-to-end support for your already-designed application, Sentilla's Application Engineering team can help.

Using our services, you can easily and quickly get your applications to market. We provide a full suite of consulting services--from feasibility studies and proof of concept; to prototyping and development; through to deployment and support. Engaging Sentilla's Application Engineering team enables you to maximize your internal resources, leverage our world-class pervasive computing expertise, and deploy your solution rapidly.

### Services

Our Application Engineers can assist you at any stage of your project. Here are some of the services we offer:

#### Planning and Proof of Concept

- **Application concept feasibility studies** – We'll research and report how Sentilla technology can solve your problem.
- **Proofs of concept technology demonstrations** – We can quickly build prototypes that demonstrate how our technology can work for you.
- **White papers** – We can provide a formal, high-level overview of our application concept feasibility study that shows how our technology can solve your problem.

#### Development

- **Software application development and review** – We'll combine your industry-specific expertise with our pervasive computing design, development and deployment expertise to develop your solution.

- **Electronics Design** – We can build custom electronics, including circuitry, sensors, power supplies, and other components.
- **Custom hardware enclosures** – We can develop custom hardware enclosures to suit your unique application deployment needs.
- **Field Trials** – We can bring build and execute a limited deployment in the field to determine the suitability of our technology for you.

#### Deployment

- **Onsite field deployment consulting services and tools** – We can assist with the initial deployment, prototyping and debugging of your solution.
- **Remote deployment support** – We can provide long-term consulting post-prototype, to support your continuing development and deployment.
- **Training** – We offer onsite support and training--to get your developers up to speed using Sentilla.

## Success Stories

Sentilla's Application Engineering team has already helped several customers achieve their pervasive computing goals. Here are two real-world examples of what Sentilla Application Engineering has done.

### Developed and Deployed an Environmental Monitoring Solution for an Industrial Manufacturer

A large-equipment manufacturer was under pressure to monitor the environmental resources of their 250,000 square foot facility and determine the optimal use of their resources. With only six weeks to develop an application, the Sentilla Application Engineering team was asked to come up with a solution to help them measure temperature and humidity to control energy costs and ensure product quality.

Specifically, our team:

- Designed hardware enclosures to interface with the appropriate sensors
- Wrote pervasive software applications to monitor temperature and humidity
- Built the data infrastructure
- Programmed the control server
- Designed a web portal to view the data
- Deployed, tested and implemented over 100 pervasive computers

**The Results:** When the application was deployed, gross leakages were discovered in the customer's laboratory. With this data, the company was able to identify the leaks and see a significant savings in utility costs and improved product quality.

### Technical Feasibility and Onsite Field Study for a Transportation Company

A global shipper came to Sentilla with a proposed architecture for a logistics solution. Sentilla's Application Engineering team tested the technical feasibility of this customer's solution, and provided feedback and alternatives to their original application to optimize their system.

Then, Application Engineering ran an onsite field study to validate the proposal. Using our services, the customer was able to clearly demonstrate the proof of concept and return on investment in a concrete manner. Within a few weeks the company was able to present the demonstration to investors, directly leading to financing. Application Engineering has since been retained to help develop and deploy the solution in a production environment.

For additional information, visit [www.sentilla.com](http://www.sentilla.com) or email [sales@sentilla.com](mailto:sales@sentilla.com)

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