

SMS ENGINEERING



CASALNUOVO | NA | CAMPANIA

Contact: Massimiliano CANESTRO
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Employees: From 10 to 49 Employees

Turnover: From 2 to 10 million Euro

Export: Less than 250.000 Euro

Status: SME

PROJECT PROPOSAL

PM4SM (PREDICTIVE MAINTENANCE FOR SMART METERING)

Description:

The PM4SM project deals with the case of “smart metering” for the monitoring of water networks. A “smart metering” system basically consists of 3 segments:

1. Sensors that detect information of interest along the water network.
2. The smart communication network used to send and possibly receive data.
3. A smart central system (Central Data Acquisition System), able to collect the information coming from the probes and process them according to a precise objective.

The analysis of the data provided by the various sensors, over long periods, allows to evaluate the performance of the water network. With network diagnosis, it is also possible to establish consumption and highlight the sectors with the greatest losses.

INNOVATION:

Current monitoring systems send “alerts” to network operators when a sensor detects an anomaly or failure when it arises. The PM4SM project has been implemented a proprietary algorithm based on “machine learning” techniques able to prevent anomalies or failures along the water network.

The Anomaly Detection Algorithm is used to find data that don't fit the normal patterns so to prevent anomaly. The Predictive Maintenance is used to ensure that systems remain operational, in fact it is useful to stay a step ahead of potential breakdowns or disruptions.

The Research and Development activities focus on the study of “machine learning” methodologies in order to identify those that best suit the domain of the “smart metering” problem.

IP Protection level:

Software has no patent. It is based on a industrial invention (IA and Machine Learning)

State of development:

Prototype

Industrial application:

Water Network

Advantage factor:

Current monitoring systems send “alerts” to water network operators when a sensor detects an anomaly or failure when it arises. The PM4SM project has been implemented a proprietary algorithm based on “machine learning” techniques able to prevent anomalies or failures along the water network.

Proposal cooperation agreement:

Industrial partnership, Sales representative, Distribution agreement, Know how transfer.

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PROJECT PROPOSAL

MY WMS JIS

Description:

MyWMS JIS is the Warehouse Management System solution that manages in an efficient and integrated way the flow of goods, supported by portable devices, barcodes and RF and RFID systems. The JIS feature guarantees the full synchronization of material flows between the internal production and the warehouses in subservience to the production, having full traceability. It allows a continuous improvement and ensures that inward and outward processes are performed in the correct order, with the right materials at the right time. The use of 'Just In Sequence mode' allows to sync the operations, minimizing wastage.

IP Protection level:

No patented Software Solution

State of development:

Product

Industrial application:

Automotive, Transport and Logistic.

Advantage factor:

- Identification systems through the management of the barcode;
- Data collection through the use of wireless devices;
- Realtime monitoring of goods handled Control of all warehouse activities;
- Full traceability of products;
- Optimal management of spaces, thanks to the warehouse mapping;
- Automatic tasks generation and distribution based on rules and priority levels;
- "Paperless" system: all the operations do not require paper.

Proposal cooperation agreement:

Venture capital financing, Sales representative, Know how transfer.

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PROJECT PROPOSAL

AQUIS

Description:

AQUIS (Aviation Quality Improvement System) is a nonconformity management system software solution, a Web Application based on a "Group Work Site" model, completely based on Microsoft Technology. Framework Net Foundation 4.0 and Windows Sharepoint 4.0 (WSF). The Non Conformities handled by the system are: Material NC, Process Technology and Organizational NC, System NC. The business areas involved, both in design and in using the system, are: Quality, Engineering, Programming, Production. Since the system is completely customizable, adding / removing areas, CN, users, workflows, etc. is extremely simple and enforceable by the user.

IP Protection level:

Not patented software

State of development:

Product

Industrial application:

The target of this solution is Medium/Large Company of Engineering and Production in the Aerospace Industry. Being a modular and web solution, it can also be adopted by an SME, enabling it to compete with top level companies.

Advantage factor:

The treatment of NC is frequently done in a differentiated manner and not integrated within different enterprise systems, with the risk of making dispersive and inefficient the management of noncompliance, as well as impossible a data tracking and analysis.

Proposal cooperation agreement:

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PROJECT PROPOSAL

DB4A

Description:

The DB4A is a platform whose "main" objective is to trace, search out and certify the originality of a product to which is applied a code, unique in the world, generated and certified by the platform itself. The DB4A system consists of five main entities:

- Code generator;
- Central Form;
- Certification Database;
- Peripheral modules for customers;
- User form (web).

The DB4A is based on an Industrial Invention of SMS Engineering: Multi-calculator system for the generation of unique and unrepeatable codes that can be used for databases. The system is based on a code generation algorithm synchronized with the exact Greenwich time.

IP Protection level:

Software has no patent. It is based on a patent-pending industrial invention

State of development:

Product

Industrial application:

Food&Beverage, Fashion, Luxury, Anti counterfeiting.

Advantage factor:

Product counterfeiting can be fought with advanced technology systems for the traceability of the manufactured products. This project, as an idea in its embryonic state, was presented in New York to the United Nations for a worldwide spread. Only in 2018, the existing technologies allowed the realization of the whole platform.

Proposal cooperation agreement:

Venture capital financing, Sales representative, Know how transfer.