



CASE STUDY

/ Innovation Vouchers

www.innovationvouchers.cz

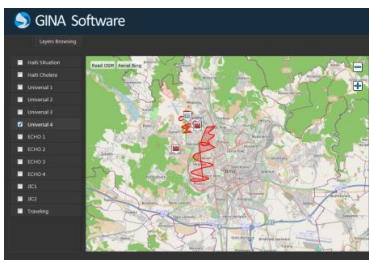


GINA Software

**GINA SOFTWARE
S.R.O.**



**BRNO
UNIVERSITY OF
TECHNOLOGY**



SYSTEM GINA'S UTILIZATION FOR PILOTLESS AIRCRAFTS AND HELICOPTERS

implementation agency

financial sponsor

media partners

partners

This project is implemented within the framework of the Regional Innovation Strategy of South Moravia

Company – Voucher Recipient
GINA SOFTWARE S.R.O. (WWW.GINASOFTWARE.CZ)

Address	U Vodárny 2, 616 00 Brno
Specialization	ICT
Size	Small Enterprise
Profile	<p>Gina Software is a company from Brno, which is focused on the development and providing of innovative mobile systems. Its main products are GINA System and GINA Locator. Owing to the partnership with Microsoft and Motorola Solutions companies, GINA Software is able to apply and run its solution anywhere in the world.</p> <p>GINA System – A mobile map system allowing on-line management of people in the field, real time monitoring of values from the sensors and their projection in the base maps. It simplifies logistic structures, thus saving time and resources.</p> <p>GINA Locator - A system designated to provide view over people and equipment's location in the field using a unique supervision centre. Its usage in combination with the GINA System represents an exceptional solution for controlling situation in the field.</p> <p>More information: www.ginasoftware.cz</p>

Knowledge Provider
BRNO UNIVERSITY OF TECHNOLOGY
Faculty of Information Technology
Department of Intelligent Systems (www.fit.vutbr.cz/units/UITS/.cs)

Profile	<p>The research activity of the Department is focused first of all on Intelligent Systems, but attention is also paid to systems for specific applications, computer-based systems, interface design and the use of multilevel parallelism. Further fields of interest are: integration of components into embedded applications, simulation and prototyping of different configurations, and formal specification and verification of the design.</p>
Responsible Researchers	<p>Doc. Ing., Dipl.-Ing. Martin Dražanský, Ph.D.</p>

Cooperation
Realization Period

6/2011 - 11/2011

Value

180 000 CZK (without VAT)

Subject

Analysis in the research area of pilotless aircrafts and helicopters for the GINA System. This IT specification serves as an assignment for communication interface implementation.

Outputs

Analysis in the research area of pilotless aircrafts and helicopters
 Evaluation and recommendation of the most appropriate technology
 Communication interfaces analysis of and proposal of common solution
 Software library for mutual communication
 Practical test of the functionality, substantiated by a protocol

Utilization and Asset

The aim of this solution was to integrate a pilotless aircraft/helicopter into the GINA system. The main motivation was to ensure an easy access to up-to-date photos from a given location for the rescuers. There is no similar solution connected to a self-contained coordination system on the market and for the company it represents considerable competitiveness enforcement in the field of crisis solution systems.

Evaluation of Cooperation – Ing. Zbyněk Pouliček (GINA Software s.r.o.)

„Personally, I can highly recommend cooperation with Brno University of Technology. The whole realization team worked constructively and solved all the problems that emerged on regular personal meetings. That is one of the reasons, why the final communication library fulfils all our requirements.“

Has the company cooperated with any other research institution before?

„Yes, but only non-commercially.“

Would there be any cooperation even without the innovation voucher?

„Yes, but in far smaller extent.“

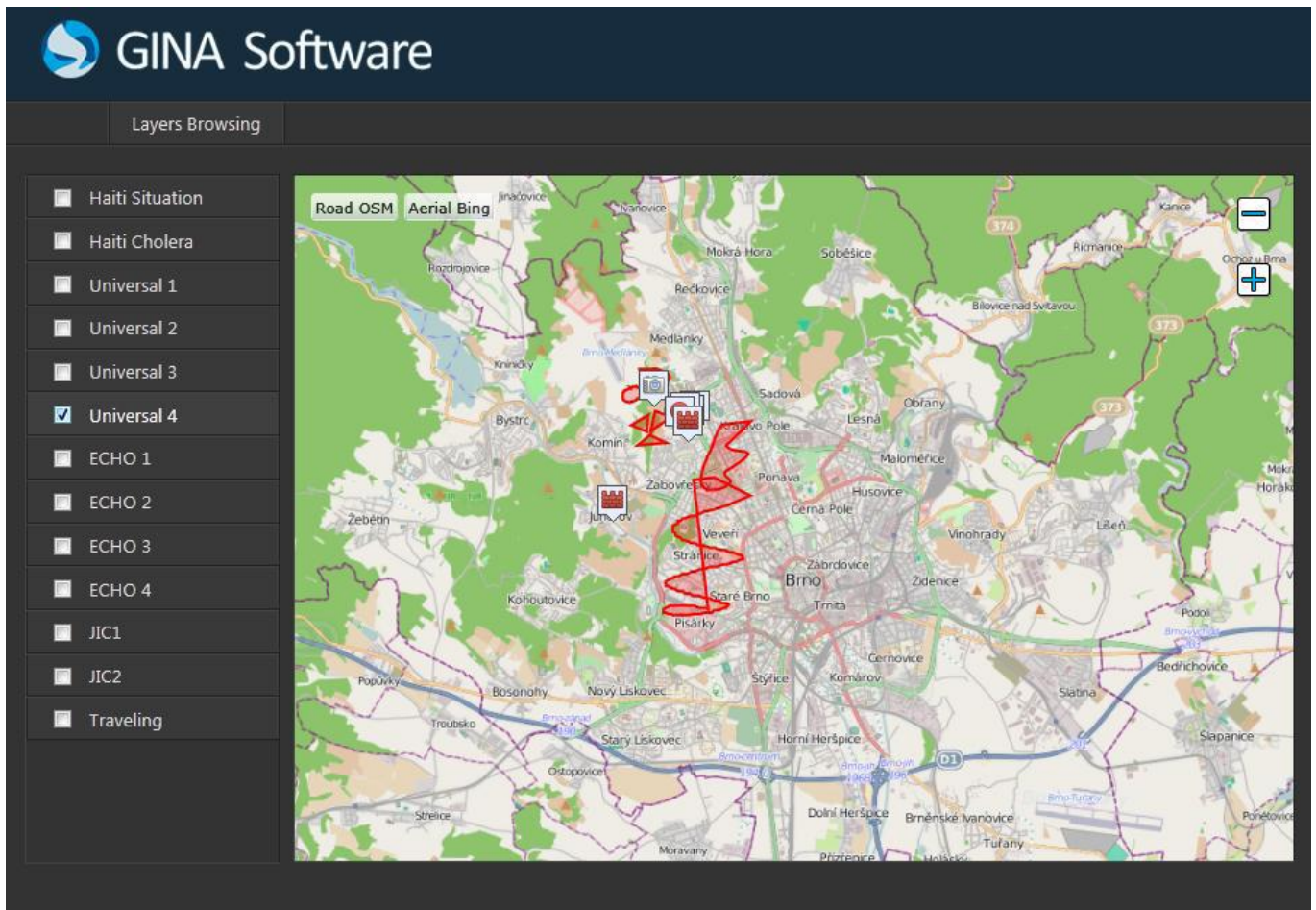


Figure 1: User interface of the communication library



Figure 2: Picture illustrating pilotless aircraft



Figure 3: Part of GINA System mobile solution