



I C T N E T W O R K

Best Practice Brochure

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Content:

I ICT Network.....4

II Institutions

1. Business Technology Incubator of Technical Faculties Belgrade I.I.c6
2. Center for Technology Transfer of the University of Belgrade7
3. University of Belgrade, School of Electrical Engineering8

III Companies

1. Belit d.o.o.10
2. Bitgear Wireless Design Services d.o.o.12
3. Electronics Service Zvonko, D-Logic14
4. EUROICC d.o.o.16
5. Execom18
6. Institut Mihajlo Pupin d.o.o.20
7. Iritel a.d.22
8. MikroElektronika23
9. KreativTeh I.I.c.24
10. MNO d.o.o.26
11. PSTech d.o.o.28
12. Saga d.o.o.30
13. Strawberry energy32
14. Teso d.o.o.34
15. UNO-LUX NS36
16. ZESIUM Mobile Ltd38



I C T N E T W O R K

ICT Network

Address: Kralja Milana 4, Belgrade

Phone: +381 11 2688 641

E-mail: office@ict-net.com

Website: www.ict-net.com

ICT Network is an association of companies, individuals, academic and research institutions devoted to the development of ICT sector in Serbia. It was established in 2010 by the merger of two former cluster initiatives, Serbian Software Cluster and Embedded.rs. As a unique information hub, ICT Network today provides its members with access to relevant and up-to-date information from ICT industry, thus enabling them to boost their competitiveness and grow. As an open organization, it offers its members equality of opportunities and a transparent framework for efficient fulfilment of their interests. One of Cluster's main objectives is to encourage its members to suggest their own initiatives or projects which can be realized either through Cluster's extensive network of strategic partnerships or in cooperation with other member companies. It provides its members with a variety of opportunities helping them to build greater visibility while keeping their business operations cost and time effective. Currently, Cluster is focused on obtaining easier access to public and EU funds for its members, giving them possibility of internationalization of their business operations and actively supporting their innovative and enterprising initiatives and projects.

Institutions





BUSINESS TECHNOLOGY INCUBATOR

OF TECHNICAL FACULTIES Belgrade L.L.C.

Business Technology Incubator of Technical Faculties of Belgrade, L.L.C.

Address: Ruzveltova 1a,

11000 Beograd, Srbija

Phone+ 381 11 33 70 950

E-mail: office@bitf.rs

Web page: www.bitf.rs

Business Technology Incubator of Technical Faculties of Belgrade, L.L.C. was established in 2006 as partnership between four technical faculties of the University of Belgrade (Civil Engineering, Mechanical, Electrical and Technological/Metallurgical), the Municipality of Palilula and the Democratic Transition Initiative. The project was supported by the Organization for Security and Co-operation in Europe based on international experiences and best practice examples. BITF was established with the aim of:

- encouraging and supporting young and educated people in starting up their own business and keeping them in Serbia;
- creating the conditions for commercialization of the results obtained through science and research activities of university professors and
- their associates, by spinning of private enterprises;
facilitating the creation of new Hi-Tech SMEs.

BITF in numbers:

- 600 m² of renovated business space,
- 500 students have passed different trainings on the subject of entrepreneurship, (Business plan, Management, Marketing, Intellectual Property Rights),
- 150 young people engaged and employees in incubator and in tenant companies;
- 33 small enterprises tenants of the incubator;
- 18 new technologies/services developed in innovation projects;
- 1 service center was developed (set of legal, accounting and financial services, business plan, protection of intellectual property and project center).



Center for technology transfer

Center for Technology Transfer of the University of Belgrade

Address: Studentski trg 1,
11000 Belgrade
Phone: +381 11 32 07 496
E-mail: ctt@rect.bg.ac.rs
Website: www.ctt.bg.ac.rs

Center for Technology Transfer of the University of Belgrade was founded in October 2010, with the purpose of identifying, protecting and commercializing results of scientific, research and expert work and the protection of intellectual property of the University of Belgrade.

Mission of the Center is to support and encourage transfer of knowledge, new technologies and innovations between University and industry and thus create better opportunities for the application of research results with the aim of economy and society development.

The main task of the Center is to help researchers in activities that make successful technology transfer: to identify research output with potential commercial value, to evaluate its commercial potential, to protect research output with intellectual property right, to market their inventions and to make deals with potential partners. Center also promotes cooperation and links researchers and industry, provides connection between external need for technologies and portfolio of inventions from the University, and generation of researches sponsored by industry.

In the first two years of its existence, Center got Invention disclosure for 13 inventions, filled two national patent applications and one PCT and created three spin-out companies to further develop and commercialize some of the inventions.



University of Belgrade, School of Electrical Engineering

Address: Bulevar kralja Aleksandra 73,
P.O.Box 35-54, 11120 Belgrade, Serbia

web: www.etf.rs

e-mail: dekanat@etf.rs

phone: +381 11 324 84 64

University of Belgrade is the oldest institution of higher education in Serbia as a successor of the Great School of Belgrade, founded 200 years ago, where the first lecture in electrical engineering was held in 1894 by Prof. Stevan Marković. Today the University consists of 31 schools covering wide range of disciplines, from humanities to medicine and technical sciences. Electrical Engineering became a separate school in 1948 and has since then built the reputation of one of the most respectful units of the University, with more than 17,500 graduated engineers at the B.Sc. level, more than 2,000 M.Sc. fellows and about 600 PhD fellows.

The School of Electrical Engineering is also the leading scientific institution. The most relevant research and development international projects realized on Faculty of Electrical Engineering during the last decade are oriented toward the following areas:

Computer Systems: eGovernment services in Serbia and other Western Balkan countries, patient-specific computational model of the cardiovascular system, cooperation between the academic and industrial communities from the EU and the Western Balkan, wireless sensor networking;

Signals and Systems: Power plants robustification based on fault detection and isolation, integrating robots and electrical stimulation for neurorehabilitation, embodied cognition in a compliantly engineered robot, integrated navigation system for automatic locating of ground vehicles;

Microelectronics and Technical Physics: Skin cancer detection using laser imaging, spectrometer for rapid detection of chemical agents and explosives, passive optical networks, compact silicon photonic devices, mid- and far-infrared quantum cascade lasers; **Antenna design:** Antennas terrestrial & space-based applications, antenna systems and sensors for information society;

Power systems: Integration of the South-East European organizations with the rest of the European power network, solar power converters and systems, modeling and simulation of the power plants and power systems, renewable energy sources.

Companies



**Belit**

Address: Obilicev venac 18-20,
11000 Belgrade

Phone: +381 11 2030 403

E-mail: office@belit.co.rs

Website: www.belit.co.rs

Belit started building its professional reputation 12 years ago. From a small company of financial and trading experts, we have grown to be one of the leaders on domestic market in IT services. Constantly expanding our business and expertise, we embrace new technologies and welcome every opportunity to prove our capability to overcome new challenges.

Business areas: Services in IT industry

Certifications and standards: ISO 9001:2008, IT Mark

PROJECTS FINANCED BY PUBLIC FUNDS

Support to the **Modernization of the Tax Administration** is a CARDS funded project whose objective is to build a large computing and communication system to cover the needs of a modern and performing TA. Total project value amounts to 4.628.505 EUR. Partners on the project are Atos Origin (Schlumberger Sema) (Lead), SOFRECO, Hulla & CO Human Dynamics KG, Planet Ernst & Young S.A., EWC.

COMMERCIAL PROJECTS

CreditBureau is a national centralized information system for acquisition and distribution of credit record history for individuals and companies. Purpose of the project is to enable the creditor to analyze subject's ongoing solvency, debt maintenance and risk involved prior to establishing a future credit relationship with the subject. Partners on the project are Association of Serbian Banks and E-Smart Systems. Technology employed includes: Microsoft Visual Studio .NET, W3C XML, XSLT

INTERNATIONAL COOPERATION

Belit has established key partnerships with Microsoft, Oracle and Abbyy, whereas its partner companies include PM Group, Intrasoftware International and Empirica. Countries in which our partners operate include Ireland, Luxembourg and Germany among others. The scope of cooperation between Belit and its partners comprises partnerships on EU funded projects in the field of consulting and software development. The result of synergies of knowledge and experience are a number of joint projects and solutions such as Project Planning Facility 3, 4 i 5; BECA; SmartSpaces; SmartCare, and many other.

REFERENCES

National Bank of Serbia, The Association of Serbian Banks, The Delegation of EU to the Republic of Serbia, Ministries (Finance, Sports and Youth, Local Self-Government, Telecommunication), Public institutions, SOKOJ, Dunav, Galenika, Velefarm.

**Bitgear Wireless Design Services**

Address: Stevana Markovica 8, 11080

Zemun, Serbia

Phone: +381113075050

E-mail: sales@bitgear.rs

Website: www.bitgear.com

Bitgear is a B2B technology partner specialised in delivering solutions in the fields of FPGA design, embedded systems design, wired and wireless communications, inertial navigation and ultimately full electronics product design, for automotive, telecommunications and consumer markets. In doing so, Bitgear builds on its own Intellectual Property.

Business areas: services and technology inventions

PROJECTS SUPPORTED BY PUBLIC FUNDS

EUWB - Coexisting Short Range Radio by Advanced Ultra-Wideband Radio Technology is a research project funded by FP7. EUWB R&D project is further upgrading and finally integrating recently developed disruptive UWB Radio Technology in four prominent application scenarios of major interest to European Industry. Total project value amounts to approximately 10 million EUR. Key objective of EUWB is to exploit the enormous potential of the innovative and disruptive radio technology embodied in Ultra-Wideband Radio Technology (UWB-RT) for key industrial sectors in Europe by innovation of cutting-edge short range radio solutions.

Partners: EADS, Bosch, Philips, Thales, TU Dresden and 15 others.

EMPHATIC - Enhanced Multicarrier Techniques for Professional Ad-Hoc and Cell-Based Communications is a research project whose objective is to propose an innovative technological solution allowing increased data throughputs for Public Safety radio-communication systems, in order to satisfy emerging new data service needs in cohabitation with existing networks in the same frequency bands, to facilitate a smooth migration towards broadband systems and to increase spectrum efficiency. The main objective of the project is to develop an efficient and highly flexible/variable filter-bank processing structure. The project is funded by FP7 and is worth around 3 million EUR.

Partners: Cassidian, Thales, Sintef, TU Munchen, CTTC, TU Ilmentau and 6 others

COMMERCIAL PROJECTS

Telematics System is a technology development project comprising design and maintenance of complex telematics system based on previously developed Bitgear's proprietary 3d trajectory reconstruction of a vehicle technology. The launch on the market is expected during Q1 2013.

Design and manufacturing of **Digital TV receiver and monitoring Card** for US market based on Bitgear's digital TV know-how. The card is capable of estimating channel quality based on Bitgear IP in ATSC transmission system, whereas Bitgear has FPGA based demodulator.

Bitgear designed and manufactured a complex high frame rate up to 1000 fps industrial camera - **High Speed Industrial Camera**. The project included sophisticated engineering of miniature size (30mm x 30mm) HDI system with advanced FPGA based image processing and system control.

PRODUCTS/SOLUTIONS AND SERVICES

Bitgear provides a solution for Assisted Living which offers **Elderly People Monitoring and support in independent living**. The solution consists of a Wearable Device – worn on a physical person capable of outdoor and indoor localization and reporting over GSM network, a Charging Unit – used for charging wearable device and indoor localization and Web Software – a cloud based monitoring, configuration and supervision software.

The Wearable device implements a number of Bitgear's proprietary algorithms, such as fall detection, boundary crossing and activity summary generation.

Merger of three units provides a full solution for Mobile operators or medical electronics companies that can licence the solution.

First deployment contract to cover Ireland and UK markets has been signed, whereas China could pose another major market.

REFERENCES

Averna Corp, Canada, Triveni Digital Inc, USA, TES Electronic Solutions GmbH, Germany, AirMax Group, UK, RockFlower Networks Ltd, UK, Huawei Corp, Serbia, Iritel a.d, Serbia, and many other.



D-Logic, Servis Elektronike Zvonko

Address: Nemanjina 57A,

Pozarevac, Serbia

Phone: +381 12 541 022

E-mail: eshop@d-logic.rs

Website: www.d-logic.net

Electronic Service Zvonko consists of two business parts, electronic equipment service founded 46 years ago and the sector of innovative RFID system, which operates as D-Logic brand. Currently it employs over 40 people and many of its products and services are present in all global markets.

The largest percentage of our business focuses on the production and maintenance of bus-ticketing systems used by numerous bus companies in Serbia, identification systems – time attendance and access control, and development tool for RFID cards programming and further development of the system.

PRODUCTS/SOLUTIONS AND SERVICES

The list of D-Logic solutions is wide and some of the systems are Total Wireless Reader, uFR Reader/Writer, BusLogic Ticketing System, AIS Start System, Base System, Industrial Displays, Fleet Management, Industrial process control systems, Printing plastic cards and so on.

On the local market (Serbia), D-Logic achieved the great expansion in the field of implementation of **Bus Ticketing Systems**. The constant increasing and improvement of Ticketing Systems is based on the experience in its usage by many big Serbian Bus Carriers.

In the past two years D-Logic launched its product for RFID System development – **uFR RFID Programmer** on the global market. This product is provided as Source Development Kit with technical support for implementation. This comprehensive tool has achieved remarkable position and has become a recognizable brand in every continent. In collaboration with its customers, D-Logic improved this development tool to comply with the development of RFID

technology, and soon placed the new series uFR controller with support for a variety of tags Mifare series, various platforms and SDK examples in almost all programming languages. Innovation and quality of products is confirmed by reference including the world-famous companies, educational and other institutions.

In a meantime a new innovative product – Total Wireless reader (**TWR**) for Time Attendance was launched. This system is unique for its Real Time event monitoring without any wires and it was rewarded in the field of modern technology with Special Recognition: "Step Into The Future" at the 56th International Fair of Technique and Technical Achievements in Belgrade.

The next step in the future D-Logic sees in the joining uFR and TWR project and providing a new solution for various RFID Real-Time Systems development – **TWR SDK**. This product will have all the best features of its predecessor – complete source development support as seen with uFR software and also the wireless hardware communication with long life time which was developed for TWR. TWR SDK is now ready to be launched and provide great possibilities to many system developers and integrators.

REFERENCES

OPEN-SLX gmbh Nürnberg - Germany, Florida International University, Miami – USA, Haute Loge Diplomatie France Hldf – France, Stevenson College Edinburgh – UK, Regional Security Officer (RSO) – USA, Uniplast Živanović - Šabac, Subotica Trans - Subotica, Bambi – Serbia, Veolia - Luv , Kavim Serbia, Veolia - Litas, Discover Central Europe L.L.C. Hungary kft, IMG Engineering Construction - Belgrade, JRB - Belgrade, Metaloprerada – Nis, Henkos DOO – BiH, ENAV Forli - Italy, QBC DIAGNOSTICS – USA, Paradis Invest Norway Limited, Hitachi ID Systems, Inc. – Canada, Fashion One Television Ltd. – USA, Latitudo s.r.l. – Italy, Fundament & Associates, Inc. – USA, GUK-Falzmaschinen Griesser & Kunzmann GmbH & Co. KG, Gamma International GmbH – Germany, Mission Integrated Systems Ltd – UK, InterSynergy – Poland, TEXA SpA – Italy, MacSema, Inc. – USA, Dee Why RSL Club – Australia, NCC Deutschland GmbH – Germany, Tauntons College –UK, MIBESIS, informacijski sistemi – Slovenia, Optel DOO – BiH, Napa Technology Ltd – USA, BPZ srl– Italy, Moorestown Friends School –USA, GAP mbH, Wissenschaftskolleg zu Berlin – Germany.

**EUROICC d.o.o.**

Address: Trscanska 21, Zemun

Phone: +381 11 371 36 65

E-mail: info@euroicc.com

Website: www.euroicc.com

EUROICC has focused on applied automation since 1998. Our solutions for industrial, medical and building automation, as well as our smart hotel control enable our business partners to work more efficiently, more safely and more cost-effectively. We are a team of professionals dedicated to design and production of quality products and solutions for automation.

Business areas: Manufacture, trade and services

Certifications and standards: ISO 9001:2008

COMMERCIAL PROJECTS

EUROICC developed **RingBus System**, a fire protection and smoke exhaustion system. Technology employed includes ultra-low power microprocessor, robust security systems and robust communication protocol. The project lasted from 2005-2012 and it was developed for EUROICC's client Belimo. Belimo Switzerland, Belimo Austria and Bustec were partners on the project.

X-Cat and **MiniCat** are CT scanners for which EUROICC designed and produced PLCs for control of scanner electronics. The client was Xoran Technologies. The project lasted from 2005-2012 and employed PLC technology.

Histotripsy is a project which included development of components for medical devices, development project for signal generator for ultrasound transducer. The project used FPGA technology and it run from 2010-2012 for Histosonics, as EUROICC's client.

EUROICC's project **M2E** included development of software for web and mobile phone applications for M2E Consulting. Server and client applications were

developed based on requests from clients from USA, including development of web, mobile phone and tablet applications. Technology employed comprised PHP, Ruby, Java script, data base MySQL, PostgreSQL - for web; ObjectiveC (Iphone), Java (Android) - for mobile applications, and open source tools and technologies on Linux system (OSX Linux).

INTERNATIONAL COOPERATION

Over the years, EUROICC has established international cooperation and partnerships with Xoran (USA), Histosonics (USA), M2E (USA), Belimo (Switzerland), Bustec (Austria). EUROICC is also a Member of BACnet international association.

PRODUCTS/SOLUTIONS AND SERVICES

EUROICC offers programmable logic controllers (PLC), distributed SCADA systems, embedded systems, products and solutions for building automation, smart hotel control, medical devices automation, fire protection and industrial automation.

Controllers from the C (Compact) series represent family of devices used for building automation. This system is designed in such a way that it uses standard BACnet communication between elements. The system integrator can use the devices from other manufacturers that support BACnet standard. The system has flexible topology so it can be utilized efficiently in the range from single family homes to large public and office buildings. Optionally all devices can use Modbus instead BACnet communication.

REFERENCES

OEM solution as part of fire and smoke protection system: Skylink airport, Vienna, Austria, Unipark, Salzburg, Austria, Neubau Westbahnhof, Vienna, Austria, Crystal Palace, Ljubljana, Slovenia.

Medical: Xoran Technologies

Industrial: Numerous factories in Serbia

**Execom**

Address: Bulevar Kralja Petra I 89, Novi Sad, Serbia

Phone: +381 21 477 0500

E-mail: info@execom.eu

Website: www.execom.eu

Execom is a software engineering company that focuses on the full development cycle, from idea to design, development and maintenance of complex software solutions. Investments in people, knowledge and strong relationships with business partners are basic elements of company's business philosophy.

Business areas: Software engineering

Certifications and standards: ISO 9001:2008, Microsoft Gold Certified Partner

COMMERCIAL PROJECTS

Execom has a solid knowledge in development of mission critical, complex and technology-driven systems. Therefore, Execom is recognized by its customers as a reliable provider of custom solutions, tailored per specific project requirements.

A variety of development experience includes: telecommunication solutions, complex automation processes, embedded systems, standard and proprietary protocol definitions, large data-flow management systems, mathematical calculations, ERP/CRM applications, SCADA systems, advanced data matching applications, accounting systems, payment solutions, data encryption, custom components, distributed systems and plug-ins.

Execom's areas of specialization are healthcare, technical automation, telecom solutions, finance and financial transactions, custom ERP systems, data visualization, embedded, mobile apps.

INTERNATIONAL COOPERATION

Execom has established key partnerships with FHI (Development Club, the Netherlands), Microsoft Partner Network, EAI (European Alliance for Innovation), EEN (Enterprise Europe Network), Vojvodina ICT Cluster, ICT Network.

PRODUCTS/SOLUTIONS AND SERVICES

Execom developed a software solution for clinical Lab, a software platform for clinical analyzers. The core idea of project to be realized was to create a completely new software, which would be used on an entire family of analyzers – “Same code running all analyzers”. Project was initiated because of a great demand for advanced software functionalities, faster development of new analyzers, easier maintenance of current analyzers, and improved development of custom versions for OEM customers. Once the requests were accomplished, nine different software versions were implemented. The client for the project is Vital Scientific B.V. the Netherlands. The project started in 2004 and the cooperation continues till 2012. Technology employed includes Borland® Delphi programming language, XML.

REFERENCES

Nedap (The Netherlands), Nspyre (The Netherlands), Chess iX (The Netherlands), Itris (The Netherlands), Vital Scientific (The Netherlands), WCC Group (The Netherlands), Care Software Solutions (The Netherlands), Salland Electronics (The Netherlands), Betronic (The Netherlands), Astrium (France), ThermoFisher Scientific (UK), MicroDoc (Germany), IT Peak Networks (Germany), Icomasoft (Switzerland), SitronicsIT (Russia).



Institut "Mihajlo Pupin"

Address: Volgina 15, 11060 Beograd

Phone: +381 11 6771 398

E-mail: info@pupin.rs

Website: www.pupin.rs

Institute Mihajlo Pupin is the leading R&D organization in SE Europe where the synthesis of scientific and expert knowledge in electronics, automation, process control, computing, telecommunications, digital signal processing, information systems, software engineering and robotics are realized.

Business areas: Applied research and development of customized hardware and software solutions in information and communication technologies.

Certifications and standards: ISO 9001:2000; ISO 14001:2004 EMS (SRPS ISO 14001:2005) – Environmental Management System; OHSAS 18001:2007 OH&SAS (SRPS OHSAS 18001:2008) Occupational Health & Safety Advisory Services

PROJECTS SUPPORTED BY PUBLIC FUNDS

Researchers at the Institute are currently engaged in 21 projects in the field of technological development funded by the Ministry of Education, Science and Technological Development. The Institute is also the most successful Serbian R&D institution measured by the number of international projects funded by the European Union. Ever since Serbia became eligible to participate in these projects, the Institute has won 39 projects (18 FP7 projects, 3 FP6 projects, 5 CIP / EIP, SEE 4, 2 Interreg / CADSES 5 TEMPUS, COST 2) and 7 bilateral projects (2 with France, 1 with Greece, 1 with Switzerland, 1 with Cyprus, one with Norway). Network of the Institute's partners consists of over 150 renowned European universities and institutes.

COMMERCIAL PROJECTS

In cooperation with its' subsidiaries, the Institute completes several significant projects annually, with the ultimate goal of converting research results into new technologies and products that will receive full recognition in the market. An example of successfully completed project, which was also one of the most important export deals of the Institute in 2012, was the "Supply, installation and maintenance of equipment and software for the closed toll collection system in BiH" for PC "Autoceste FBiH". This system is the most contemporary classic toll collection system in this part of Europe at this moment.

INTERNATIONAL COOPERATION

One of the most important partnerships IMP achieved is the one with the Fraunhofer First (Berlin, Germany) - the largest and most renowned institute in the field of ICT in the European Union. In 2003. the two institutes established The Joint Project Office (JPO) with the goal of integrating ICT expertise and resources of both institutions. Their cooperation covers the following areas: semantic technologies, ambient intelligence, knowledge management, decision support systems, language technology, CEP (Complex Event Processing) language, service-oriented architecture, real-time simulation, intelligent application of technology in the hazards management, environmental protection, RET micro nets management, and so on. The aim of cooperation is easier transfer of technology to the market of the EU. Around 30 international projects were realized through JPO.

Working on commercial projects, the Institute established cooperation with several recognized international companies such as: Motorola, Texas Instruments, Raytheon, Oracle, Kapsch, etc.

In May 2011, IMP was selected to be a member of Texas Instruments (TI) EMEA Design House Network. By becoming a part of this network, IMP joined a privileged group of companies identified as prominent partners of TI in the EMEA (Europe, Middle East and Africa) region. For IMP customers, this membership will mean a lower risk of development and reduced development time through the combination of IMP's proven design expertise and extended support provided by the TI.

PRODUCTS/SOLUTIONS AND SERVICES

Products and services offered by the Institute include a wide range of innovative products and technologies, and integration systems intended mostly for large scale business systems, state enterprises, institutions and public administration. The most important solutions include SCADA and DCS control systems in power plants, transmission and distribution networks, utilities, complex technical systems, general purpose information systems, traffic management systems, tracking of mobile objects, CCTV monitoring solutions, S, A&W systems, etc.

REFERENCES

Applied research in a wide range of electrical engineering, smart business policy and reliance on own research capacities contributed to a number of contemporary and original solutions which Institute was able to offer to the market and to obtain references in Serbia and around the world, achieving exceptional results year after year. Major Institute's clients are various government ministries and agencies, the Public Enterprise "Roads of Serbia", Public Revenue Office, Electric Power Industry of Serbia, Telekom Serbia, as well as the water treatment companies, chemical, pharmaceutical and food processing companies.

**IRITEL a.d. BEOGRAD**

Address: 11080 Beograd,

Batajnički put 23

Phone: +381 11 30 73 555

E-mail: katja@iritel.com

Website: www.iritel.com

IRITEL a.d. Beograd was founded in 1967. IRITEL focuses on designing, engineering and manufacturing of systems and equipment in the following areas of telecommunications and electronics: Digital transmission, VoIP, Digital radio communications and Power electronics.

IRITEL a.d. Beograd is accredited at the Ministry of Science and Technological Development as a research and development institute.

Business areas: Research, development, design, manufacturing, engineering, consulting, maintenance and customer training

Certifications and standards: SRPS ISO 9001:2008, ISO 9001:2008, SRPS ISO 14001:2005, ISO 14001:2004, SRPS OHSAS 18001:2008 and OHSAS 18001:2007

PRODUCTS/SOLUTIONS AND SERVICES

Some of Iritel's products include: OTN/DWDM 10G Optical Transport Platform, NG-SDH STM-16/4/1 Optical Transmission Systems, WDM/CWDM/OADM Passive Optical Mux/Demux & Optical Add/Drop Multiplexers, Multiservice Access Node MSAN, Various Interface converters (IP over TDM, TDM over IP, encryption, etc.), Power supply systems for telecommunication equipment, Products based on software radio technology, SUNCE - Integrated network management and monitoring system. Iritel also offers engineering services for fixed and radio communications, Manufacturing and Assembly of Electronic Devices (SMT) and Quality Assurance.

REFERENCES

Telekom Srbije, Telekom Srpske, VIP, ORION Telecom, EPS, EDB, railways companies, Internet Service Providers: SBB CDS, Madnet, VeratNet, radio broadcasting centers and other users of telecommunications systems in Serbia, Republic of Srpska, Montenegro, Macedonia, Bulgaria, Turkey, Holland, Germany, Brazil, USA.

MikroElektronika

Address: Visegradska 1A, Belgrade

Phone: +381 11 3660600

E-mail: office@mikroe.comWebsite: www.mikroe.com

Founded in 2001, MikroElektronika currently employs 58 people. The company produces a wide range of development tools, compilers and books for PIC, dsPIC, AVR, 8051, ARM and PSoC microcontroller families. MikroElektronika defined its goals through slogan "making it simple", which depicts efforts to make products easy to use and suitable for beginners. Other key company values include in-house production, beautiful design of both products and packaging, exceptional, yet free of charge customer care, comprehensive documentation, and rich set of examples for each and every product.

Business areas: Manufacture

Certifications and standards: ISO9001:2008 certificate of Quality Management

INTERNATIONAL COOPERATION

MikroElektronika has established partnership with Texas Instruments (USA), one of the biggest companies in the field. The result of the partnership was design and manufacturing of Analog System Lab development board, which were sold over 2000 units worldwide.

PRODUCTS/SOLUTIONS AND SERVICES

EasyPIC v7 development board provides an excellent platform for embedded engineers, students and companies who want to develop hardware products based on Microchip® PIC® microcontrollers. Technology employed is SMD. Key benefit of EasyPIC v7 is that it represents an all-in one solution, rich with modules essential in development, including on-board programmer/debugger.

mikroC compiler is company's leading software brand. It's a full-featured development environment which includes intuitive IDE, sophisticated compiler with smart optimizations and advanced linker, preprocessor and code generator. Key benefits of mikroC compiler are that it includes over 500 library functions, rich set of additional tools, comprehensive Help file and hundreds of examples, making it easy for engineers to develop their projects and shorten time-to-market.

**KreativTeh L.L.C.**

Address: Ruzveltova 1a

Phone: +381-11-3370-951

E-mail: office@kreativteh.comWebsite: www.kreativteh.com

KreativTeh LLC is a spin-off company of the Faculty of Technology and Metallurgy, University of Belgrade, Serbia, established with the intention of transferring innovative ideas and knowledge from scientific research to industrial exploitation primarily in the areas of biomedicine and pharmacy. KreativTeh team are B. Obradović, V. Mišković-Stanković, Z. Jovanović, J. Stojkovska, M. Ljubenović.

Business area: R&D in biotechnology

PROJECTS FINANCED BY PUBLIC FUNDS

Nanoaktiv Wound Dressings is an innovation project funded by MINI GRANTS Program of the Innovation Fund financed by the European Union Instrument for Pre-Accession Assistance (IPA).

NanoAktiv wound dressings are novel biomedical products in various forms based on alginate with silver nanoparticles synthesized by an original technology for the treatment of different types of wounds (e.g. deep, necrotic and/or superficial). NanoAktiv formulations are based on alginate solutions and hydrogels in different forms (films, sheets, microbeads, microfibers) that contain electrochemically synthesized silver nanoparticles with the aim to develop antimicrobial dressings, which will promote wound healing by regulation of moisture levels and reduction of infections.

Objective of the project is to develop a variety of NanoAktiv products for medical as well as veterinary applications and to draw attention of pharmaceutical industry for further product commercialization with a strategic partner.

Total project value: 91.078,20 €

PRODUCTS/ SOLUTIONS AND SERVICES

New antimicrobial materials synthesized by original technologies and intended for wound treatment in medical as well as in veterinary use

REFERENCES

KreativTeh founders are inventors at two patent applications P-2010/0499 and P-2012/0019, at the Intellectual Property Office of Republic of Serbia.

At the Competition for the Best Technological Innovation in Serbia, 2011, NanoAktiv wound dressings: alginate microbeads with silver nanoparticles, has won in the group Health (medicine and materials) and was the absolute winner in the category Innovative ideas.

KreativTeh team has won two Golden Nikola Tesla medals in the category of new technologies at International Exhibition of Innovations, New Technologies, and Industrial Design „Pronalazaštvo – Beograd 2011“ and „Pronalazaštvo – Beograd 2012“

KreativTeh LLC is the Award Winner at the Balkan Venture Forum 2012, November 22-23, 2012, Belgrade, Serbia.

KreativTeh won the award for the Best female team in the Competition for the Best Technological Innovation 2012.

**MNO d.o.o.**

Address: Bulevar Kralja Aleksandra 249,
11000 Belgrade, Serbia

Phone: + 381 63 7737328

E-mail: info@mnocompany.com

Website: www.mnocompany.com

MNO was established in 2008 as a software development company with highly-skilled IT Experts. Our business focused on delivering high-quality software and consulting services in order to bring together information and business. Our team is always ready to assist you in creation and development of the most effective solutions customised to your needs.

PROJECTS SUPPORTED BY PUBLIC FUNDS

Primary Health Care is Software for Primary Health Care includes patient appointment module, electronic patient records, nurse services, integration with Patient register and Codes standards in National Health Insurance and National EHR Register.

Mobile Payment System is an innovative system which integrates mobile devices in payment systems using SMS, NFC and other relevant cutting-edge technologies. Technologies employed include: Java, Android Framework for Mobile Devices, NFC, iOS.

Applications for Google Mobile Android Platform:

Mute application mutes all sounds in one touch. The application has been downloaded from Android Market more than 300,000 times. **Dynamic Ring** dynamically modifies ring volume according to the level of noise. **BG Parking** sets up Car Plate Numbers and enables the user to pay the parking ticket in two clicks. **No 2 Name** processes received messages from your mobile operator and shows you missed calls with names from your phonebook. When turned face down, **Silencer** silences phone while ringing and phone goes to silent mode. **Don't Touch** makes a noise if somebody tries to move phone while locked. All applications are uploaded on Android Market as free. Used technologies include Java, Android Framework for Mobile Devices. **Wallpaper clock** - Live wallpaper with various background and date and time. Optimised for Vladstudio wall clock. **News** - Serving news from different sources (database, RSS, XML, web services...) and show optimised for mobile device screen size and resolution. Filtering news depend of mobile location (GPS or network base)

COMMERCIAL PROJECTS

Medical Alert is an application for Android Platform to support Medical Alert system for elderly people. Application is permanently connected with Alert Button device and exchanges data using ANT+ protocol and Bluetooth 4.0. It employs Java, Android Framework for Mobile Devices. The application was devised for Belit.

Sokoj IS is an information system for the organization of Serbian music authors. It uses the following technologies: front-end, UI: JSF, RichFaces AJAX framework; Middleware: Hibernate, EJB 3.0, JBoss Seam Framework; Reporting system: BIRT; Databases: IMB DB2 v9 LUW, r5v4 iSeries.

The Quest Widget is used in direct interaction between Philip Morris tobacco manufacturer and their clients. Employed technologies include HTML, XML, Java Scripts, Windows Sidebar framework, ASP.NET and MySQL.

Omnibaz is an application with a centralized database for vehicles, customer and vehicle ownership tracking. It was integrated with existing software in company (SAP, AB soft, COFICO). The application was devised for Daimler AG, Mercedes-Benz Serbia. It uses frontend technologies: Windows forms for Microsoft .net 3.5, Microsoft Access 2003 database and Microsoft Report Viewer for .net framework 3.5.

INTERNATIONAL COOPERATION

Smart Care CIP ICT PSP 2012 aims at defining a common set of standard functional specifications for an open ICT platform enabling the delivery of integrated care to elderly European citizens. A total of 24 regions and their key stakeholders will define a comprehensive set of integration building blocks around the challenges of data-sharing, coordination and communication. Ten regions will then pilot integrated health and social services to combat a range of threats to independent living commonly faced by elderly people while the other will prepare for early adoption. Serbia, region Kraljevo, is one of ten selected regions. MNO d.o.o. is subcontracted from Serbian Partners (Belit d.o.o. Health Centre Studenica, Centre for social work Kraljevo) in proposal preparation, negotiation and develop IT services.

SmartSpaces Kiosk, subcontracted from Belit d.o.o in CIP ICT PSP Smart Spaces project, is a custom developed application for Tablet devices to support kiosk mode. Kiosk mode means that you can set your web pages (for example visitor pages for smart spaces users) to present in full screen. For this purpose, we created custom design, Smart Spaces branded for tablet enclosure. Application should be info desk and information centre about energy consumption in selected buildings. Furthermore, users can learn during education material and quiz about saving energy. Used technologies: Java, Android Framework for Mobile Devices.

**PSTech d.o.o.**

Address: Milutina Milankovica 11b/ IV

Phone: +381 11 205 74 00

E-mail: office@pstech.rs

Website: www.pstech.rs

PSTech is a software development company that provides fully integrated business solutions and advanced software development services. We are based in Belgrade, Serbia, and successfully provide our services to local, regional and global markets. We continue helping our customers and partners explore their business development and optimization through our expert knowledge and experience, since 1996.

Business areas: software services

Certifications and standards: ISO 9001:2008

COMMERCIAL PROJECTS

Network Lifecycle Management Tool, project for major mobile operators: integrated view of mobile network (Base stations, etc.).

Singapore's Institute of Technical Education Call centre integration: Cisco-SugarCRM-CTI.

lqom.de-German ISP provider, advanced CRM and workflow system implementation.

Telenor: software development of consumer portal: www.dobrestvari.rs

INTERNATIONAL COOPERATION

PSTech is software outsourcing partner of Cisco Systems, Sony, Plantronics and Adobe.

PRODUCTS/SOLUTIONS AND SERVICES

SugarCRM Connector for Cisco IP Telephony

REFERENCES

Cisco Systems (USA), Sony Ericsson Mobile (USA), Sony Mobile (Sweden), Adobe Systems (USA), iQom.de (DE), ezDerm (USA), NewCardio (USA), PointeCast (USA), Latitude Communications (USA), Wanadu Interactive (USA), Jabbertise (USA), Publitas (NL), Plantronics (USA), Telenor (SRB), Farmalogist (SRB), Vip mobile (SRB), Luna Fashion (SRB), Uniqa (SRB), Hypo-Alpe-Adria Bank.

SAGA

new frontier group

Saga d.o.o. Beograd

Address: 9, Milentija Popovica street

Phone: +381 11 3108 500

E-mail: office@saga.rs

Website: www.saga.rs

Established in 1989, Saga now has more than 360 employees, with headquarters in Belgrade (Serbia) and subsidiaries in Montenegro, Bosnia and Herzegovina and Macedonia. Since 2005 Saga is Serbia's number one system integrator, measured by revenue. In 2009 Saga became Member of New Frontier Group – the most perspective group of ICT companies in Central and Eastern Europe.

Business areas: Saga specializes in solutions for telecommunication, oil & gas, finance, public and utility, manufacturing and transport.

Certifications and standards:

TUV Certificate ISO 9001:2008 obtained for Quality Management System;

CERTIND Certificate OHSAS 18001:2008 / OHSAS 18001:2007 obtained for Health and Safety Management System;

CERTIND Certificate ISO 14001:2005 / ISO 14001:2004 obtained for Environmental Management System;

CERTIND Certificate ISO 27001:2005 obtained for Information Security Management System;

CERTIND Certificate ISO 20000-1:2011 obtained for Service Management System.

PROJECTS SUPPORTED BY PUBLIC FUNDS

Saga's project, **e-Government**, infrastructure creation for e-Government services, was funded by European Commission. The Government of the Republic of Serbia has used the project of infrastructure implementation to improve and modernize e-Government services. The financier of the project was the European Commission. Saga, as the project holder, has implemented a Data Center based on the powerful server platform with innovative solutions that provide for all needs of the ministry. The importance of this project for our country is huge, since it integrates in one place a complete infrastructure for e-Government in Serbia. Project objective is to increase of efficiency and the number of services that are provided electronically to the ministries and citizens of Serbia.

COMMERCIAL PROJECTS

The project of **TV signal digitalization in Serbia** came as the result of the commitment made by the Republic of Serbia to migrate to digital broadcasting of terrestrial TV signal by 17th of June 2015 after having signed the GE06 Agreement in Geneva in 2006. Signal transmission in digital technology is performed by using digital methods of modulation and signal processing. The project in which Saga participated included installation of IP and video equipment necessary for the network functioning of the Public Enterprise „Broadcasting Equipment and Communications.“ After digitalization PE BEC services will be used by all state and private TV stations. Technology employed included Cisco routers, Cisco VidMON, Cisco Network Management System.

INTERNATIONAL COOPERATION

Key partnerships established by Saga include: Microsoft, HP, Cisco, Fujitsy Technology Solutions, EMC, Symantec, Juniper Networks, Hitachi Data Systems, CompTIA, Oracle/Sun Oracle, VMware, Interactive Intelligence, etc.

PRODUCTS/SOLUTIONS AND SERVICES

iBanking is the New Frontier Group BankingOnline solution developed by Saga that meets the requirements of business and marketing. Technology used in the project included: Microsoft .NET Framework, Microsoft SQL Server. Key benefits of the solution are the following characteristics: intelligent content management (based on the portal principles), interactive (provides two-way communication between the bank and its clients), intuitive (one click payment, personal finance, ATM and branch locator...), technologically superior – designed in accordance with the Web 2.0 concept (full support for modern mobile banking, Multilanguage, advanced analytics modules, independent from browsers and operating system, work with certificates...), secure (protection of transactions is secured by advanced mechanisms). Project references include: Raiffeisen banka, Banca Intesa Beograd, Societte Generale Banka (implementation in process), Kazpost (implementation in process).

REFERENCES

Saga has 36 clients among Top 100 Serbian Companies, and among 33 banks and financial institutions, 28 clients (85%). Notable clients include: Telekom Srbija (fixed and mobile telephony, ISP, IPTV); VIP Mobile; Telenor; PTT – Serbian Postal Services (cable TV, ISP); European Commission; Republic of Serbia – Ministry of Finance (Tax Department).

**Strawberry energy**

Address: Ruzveltova 1a, Belgrade

Phone: + 381 11 3370950

E-mail: jagodica@senergy.rs

Website: www.senergy.rs

Strawberry energy is a young Serbian company motivated by a simple vision: to make renewable energy sources more accessible to all people. Through everyday use of our devices that are powered by renewable energy sources, Strawberry energy is giving a chance to each individual in community to learn, realize and understand idea of clean, green technologies and to contribute to making the world a better place.

Business areas: Engineering activities (research & development, production and sale of solar devices, technical consulting and education about renewable energy sources).

COMMERCIAL PROJECTS

Strawberry Tree Obrenovac: In cooperation with Obrenovac municipality, the first in the world Public solar charger for portable devices Strawberry Tree was installed in Obrenovac, Serbia, in 2010. Partner organisation on the project was Eco Fond Obr.

Strawberry Tree Novi Sad: In cooperation with Elektrovojvodina (Electricity Distribution Company), the Strawberry Tree has been installed in Novi Sad, Serbia, in 2011. Partner organisation on the project was Public Enterprise for City Construction and Development of Novi Sad.

Strawberry energy & Telekom Serbia: In cooperation with Telekom Serbia and local authorities of different cities in Serbia, Strawberry energy Company has installed a Strawberry Tree in Belgrade and four more in four cities at different sides in Serbia: Kikinda, Vranje, Bor and Valjevo. Partners on the project were: Municipality of Zvezdara, Municipality of Kikinda, Municipality of Vranje, Youth Office in Vranje, Municipality of Bor, the City of Valjevo

Strawberry Tree Black: The second Strawberry Tree in Belgrade has been installed in cooperation with Palilula Municipality and the city of Belgrade in Tašmajdan. Due

to its completely new design this solar charger was called Strawberry Tree Black.

PRODUCTS/SOLUTIONS AND SERVICES

Strawberry energy Company has created Strawberry Tree, the first in the world Public solar charger for mobile devices, followed by Strawberry Mini, a small portable solar charger for mobile devices.

The Strawberry Tree is a solar charger for portable devices, which is permanently installed in busy public places. By harnessing the energy of the sun, it enables passers-by to charge their mobile devices for free when they need it most – far from home and with an empty battery. Strawberry Tree contains built-in solar panels, which capture the energy of the sun and enable it to be transformed into electrical energy. As this energy is then stored in rechargeable batteries, it does not even need fine weather to be useful.

The Strawberry Mini is a small portable solar charger for mobile devices. Thanks to its smaller size, built-in wheels, possibility to disassemble and lack of need for an external power source, the Strawberry Mini can be set up quickly in almost any location. Embedded touch screen enables users to play games and quizzes about renewable energy, and read interesting facts about ecology while waiting a few minutes for their batteries to recharge.

Strawberry Mini also represents a unique platform for education, promotion and advertising. With its applied additional features such as interactive application installed at embedded touch screen, info space (ad pocket for promotional material, ad board for branding, QR codes application) the device becomes an information desk, a meeting point and unique landmark in space.

Technology employed: Green technologies in the area of solar energy

Key benefits: clean energy sources usage, device portability and mobility, practical example of renewable energy sources usage, educative application, diverse ways of device usage, simple to use

Target market: 1. Serbia and region 2. European Union countries 3. Global market

Currently, Strawberry energy are in the final phase of signing contracts with purchasers from Turkey, Italy and Austria for Strawberry Mini device. Also, we are in the middle of negotiations with cities from region for Strawberry Tree device.

REFERENCES

Municipality of Obrenovac, Music festival EXIT, Telekom Serbia, Elektrovojvodina, City of Belgrade



Telecommunications & Embedded Systems Operations

TESO d.o.o

Address: Ruzveltova 1A, Beograd

Phone: +381 11 3370951

E-mail: srdjan.tesanovic@teso.rs

Website: www.teso.rs

TESO (Telecommunications & Embedded Systems Operations) is a start-up company founded in 2009 in Belgrade, Serbia. Firm is oriented as design services provider, with an excellent team of young engineers and a wide international experience. TESO mainly offers technology outsourcing cooperation model, and in this way can prove to be a long-term reliable high-tech B2B partner. The company specializes in embedded systems development, custom hardware design, digital signal processing, and telecommunication systems design.

Business areas: Design services, technology partner, manufacturing.

PROJECTS SUPPORTED BY PUBLIC FUNDS

TESO's innovation project „**Development of advanced, adaptive city traffic control system**“ is funded by Ministry of Education and Science of Republic of Serbia. The project includes development of smart traffic light system for remote monitoring and adaptive control. Total project value is 4000000 RSD.

COMMERCIAL PROJECTS

SIM-32FXS is an R&D project which includes the development of 32 port telephone hub, supporting VOIP protocol intended for use by big corporations with number of remote domestic and foreign branch offices. The project was developed for Vconsole and it employed FPGA, Linux, Digital signal processing and other technologies.

PRODUCTS/SOLUTIONS AND SERVICES

Police radar video/system – “PL4 cam”, electronics system for hand held police radar device, was developed for a local partner. Final customer was a well-known US Company which specializes in radar systems for police use. TESO was required to provide a hardware platform and customized Linux Kernel (supporting number of custom peripherals) together with its operating system.

Board support package for Samsung ARM9 based industrial controller “nanoRisc” is developed for Institute Mihajlo Pupin, IMP-Telecommunications. TESO's was to develop a board support package for an industrial COM module (Computer On Module) called “nanoRisc”. Module was based on Samsung ARM9 processor platform. End customer was well known German company MSC Vertriebs GmbH.

Home automation sensor/system – “smart eye” was developed for a Germany-based company. TESO's task was the development of a platform for imaging based home automation device, capable of easy integration into already existing smart home systems. Platform requirements were, image acquisition, on board processing and connection to remote host. TESO developed the complete solution based on initial idea of the client to have a device which will monitor current situation in the room and apply advanced object detection algorithms in order to recognize number of people present, their positions, various environment conditions (temperate, open/closed windows, etc.) and upon those parameters adjust the room conditions or execute some predefined functions.

IP camera device, a video surveillance high definition IP camera prototype, was developed for TESO's US client with fixed set of requirements for a hardware platform, and a request for FPGA system core.

OMAP 3 based image acquisition and video processing device was developed for a US company. TESO developed a prototype of a system for image acquisition and processing with algorithms development and porting of those to developed platform. Main requirements introduced by client were a stand alone, hand-held device, capable of acquisition of high definition video images under specific lightning conditions. Device required COM functionality and capability of advanced image processing in real-time. Given these requirements OMAP3 platform was selected as the core of the system. Additional multimedia peripherals required for custom digital camera were integrated on top of selected platform. Hardware initially developed for prototype of a device was later on optimized for final series production. In order to achieve all needed performances, initial MATLAB algorithms were ported to DSP core of the OMAP processor, this was done as a part of a software package. TESO also implemented custom based Linux operating system and developed specific applications requested by the client. Beside research and development of the device, TESO also provided support and coordination for manufacturing of first series of requested custom digital camera based device.

REFERENCES

IMP-Telecommunications, Telix, Vconsole, Aisleworx, Poets Road, I2Core, and many other.



UNO-LUX NS

Adress: Generala Milutina Vlatkica 36,
11147 Belgrade Serbia
Phone: +381 11 251 11 22, 236 17 68,
236 12 96
E-mail: office@unoluxns.com
Website: www.unoluxns.com

UNO-LUX NS is a company formed by the division of the company UNO-LUX founded in 1992. Business activities of UNO-LUX NS are production, engineering and education. Basic orientation of the company is planning and implementation of control and monitoring systems for automation of various processes (chemical industry, petrochemical, food processing industry...), machines and lines (rehabilitation or new production). Also, an important part of UNO-LUX NS services is development of the application software using the LabVIEW software package as well as education of employers and training staff for this software package.

Business areas: engineering, manufacturing, designing and services.

Certifications and standards: LabVIEW certificates

INTERNATIONAL COOPERATION

Partner company: National Instruments, USA, Alliance Partner and De Lorenzo, Italy, distributor, manufacturer.

PRODUCTS/SOLUTIONS AND SERVICES

Skolice - teaching aid is a modern modular platform that allows you to use a computer in the process of measuring of different physical values and control of different processes during the execution of the mandatory demonstration experiments and laboratory exercises in various subjects in primary and secondary schools. Kits available are: Skolice I01 for direct and alternate current and electronics, Skolice TD01 for thermodynamics, Skolice t01 for time measurements, Skolice MT01 for mobile phones, Skolice BIO01 for biology, Skolice CHEM01 for chemistry.

Physical Ability Test system (PAT) - system for testing physical abilities is a system made for testing of physical abilities of individuals and teams. It's consisted of modules for evaluation of the speed, agility, explosive power of lower limb,

isometric force, rate of force development, and measurement of dynamic parameters (maximum force, maximum and average power, speed of movement, duration of movement, performed work, etc.) during overcome load in the so-called isoinertial mode.

SRB cRIO GSM – module for National Instruments cRIO platform enables GSM communication of the CompactRIO controllers using the public land mobile networks. It is based on SIMCom's GSM SIM900 modem. SIM900 is a quad-band module with SMS, CSD and GPRS communication features. The module functionalities are achieved by calling the LabVIEW functions from the Real-Time application of the cRIO platform: basic functions for module usage (module reset and initialization, module shut-down, checking of GSM signal quality and network registration status); text and PDU SMS functions (send SMS with optional delivery report, asynchronous delivery report for text SMS, asynchronous notification of new received SMS, read specific SMS message from the SIM card, list all SMS messages from the SIM card according to the specified criterion, delete SMS messages from the SIM card); CSD functions (making the data call, asynchronous wait for a call, answer and hang-up the call, send and receive the data over the data call connection); GPRS TCP/UDP communication functions (activation and deactivation of GPRS service, open and close TCP or UDP connection, send and receive the data over the TCP or UDP connection, start and stop TCP server, asynchronous wait for a new client connection on started TCP server); FTP functions (upload and download a file to/from a FTP server) and Email functions (send an email through a SMTP server, receive an email through a POP3 server).

REFERENCES

UNO-LUX NS was a part of numerous projects and some of them include: Ehting, Belgrade (projects for PUC "Water supply and sewerage" in Belgrade, Pozarevac, Nova Varos); Vukic Computer Instruments Gmbh, Germany (development of USB drivers for the device Koshava 5); Faculty of Electrical Engineering University of Belgrade; Faculty of Mechanical Engineering University of Belgrade; Sintelon, Backa Palanka (the control system for wastewater treatment); Faculty of Medicine, Institute of Pharmacology, Belgrade (System for data acquisition, analysis and presentation of blood pressure in animals) and many other that can be found on company's website.



ZESIUM mobile Ltd.

Address: Valentina Vodnika 8/9, NS

Phone: +381 21 472 15 48

E-mail: info_ns@zesium.com

Website: www.zesium.com

Zesium Mobile is an ambitious and dynamic company with a clear strategy and mission to utilize the latest and emerging communication and information technologies in order to improve business and increase satisfaction of our customers. Our engineers have valuable experience and strong professional background in IT domain, ranging from software design and development, product validation, testing and consultancy services.

Business areas: consulting and outsourcing services in the area of mobile SW solutions and systems, integrated SW solutions in the domain of decision support and emergency management.

Certifications and standards: IT Mark

COMMERCIAL PROJECTS

The project of implementation of **integrated fire protection system** for Elektrovojvodina aimed at developing an integrated security information management software-hardware platform (IPPS) for real time data acquisition, processing, distribution and presentation that allows different stable fire detection systems on remote locations to communicate critical data to central monitoring/dispatching/commanding spot. Partner on the project was the Faculty of Technical Science Novi Sad, Serbia.

Technology used in the project includes SOA (Software Open Architecture), Linux Ubuntu/CentOS/Rad Hat, Java Swing, JSP, JSF, IBM iLOG Jviews Maps, MySQL, ORACLE 11g, SOAP, HTTP, TCP/IP, GPRS, TETRA, XML, CAP, EDXL, TSO, JEE6, EJB, Spring, Hibernate, GlassFish.

PRODUCTS/SOLUTIONS AND SERVICES

IPPS (Security and safety of objects and people) is a solution whose goal is to develop integrated security information management software-hardware platform for real time data acquisition, processing, distribution and presentation that allows different safety protection devices, sensors, interfaces and monitoring systems on remote locations to communicate critical data to central monitoring/dispatching/commanding spot. Development of this solution required the following technology: SOA (Software Open Architecture), Linux Ubuntu/CentOS/Rad Hat, Java Swing, JSP, JSF, IBM iLOG Jviews Maps, MySQL, ORACLE 11g, SOAP, HTTP, TCP/IP, GPRS, TETRA, XML, CAP, EDXL, TSO, JEE6, EJB, Spring, Hibernate, GlassFish.

Key benefits include “4Integration” concept together with peripheral systems/equipments, communication systems, data and other elements. Another advantage is application of modern technology and a business model that meets specific customer requirements and expectations.

REFERENCES

Siemens Mobile Devices (Germany), FreeScale (France), Texas Instruments, Germany and USA, STROM Telecom (Czech Republic), MicronasNIIT, (Serbia), Teleconnect (Germany), BenQ-Siemens Mobile (Germany), Aplix Corporation (Japan), Icera (UK), Philips (France), Comneon (Germany), WirTek (Denmark).

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