Company CV

...from DESIGN to MANUFACTURE...

MICROCONTROLLERS

8 bit:	8051, PIC, AVR, COP8
16 bit:	MSP430, V40
Special:	DS80C400

SOFTWARE LANGUAGES

Embedded:	ASM (for real-time application) C, Java, Pascal
PC level:	Delphi, C++, Java
PDA level:	PalmOS, WinCE

INTERFACE DESIGN

Wired:	RS232, RS422/485, USB, CurrentLoop, Centronix
Embedded:	I2C, SPI
Network:	Internet, Ethetnet, TCP/IP, Lonworks
Wireless:	GSM/GPRS, radiolink over ISM band

DESIGN TOOLS

AutoCAD,	PCAD,
OrCAD,	CAM350,
IAR System,	AVR Studio,

DESIGN SKILLS

- custom controllers for various applications;
- data conversions;
- embedded interface communication;
- normal and switched power supplies;
- industrial equipment for outdoor applications;
- LED application for advertising;
- digital and analog designs;
- PCB design;
- mechanical & packaging design;
- software design and development;
- process and temperature controls;

PROJECT MANAGMENT

- short design time;
- complete project management;
- cost effective design;

- complete phases of design;
- prototyping (PCB, SMT) ;
- preparing for production;
- design quality assistance;
- design documentation;
- management of component sourcing;

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JOFRE
LABORTECHNIK

http://www.jofre.com
jofre@brest.by

DESIGN

Design bureau:
20 persons

MANUFACTURE

Manufacturing department:
80 persons

PCB MANUFACTURING

- grade of PCB accuracy: Class 4;
- single-, double side, multi layer (up to 12 layers);
- dimensions: up to 660 x 400 mm;
- stencil mask producing;
- leadless covering of pads;

PRODUCTION

- surface mount technology (SMT) through-hole techology (THT);
- SMT cases: 0402, 0603, 0805, 1206, 1210, 1812;
- SMT line has 6000-components/hour capacity;
- automatic Surface Mount Assembly;
- wave soldering for THT components;
- combined assembling: SMT and THT;
- ultrasound cleaning;
- protection covering (lacquering);
- manual assembling using pneumatic tools;
- antistatic protection of all working areas;
- small to medium volume manufacture;

MANUFACTURING EQUIPMENT

- stencil printers;
- automatic pick and place machines;
- IR reflow conveyor machines;
- hot air SMT rework stations;
- wave soldering machine;
- ultrasonic clearing machine;
- viewing system for visual control;
- soldering stations for manual soldering process;

QUALITY CONTROLLING

- all products are serial numbered, batch traceable;
- 100% visual quality control;
- 100% electrically tested;
- temperature aging (climate test);
- insulation strength test (up to 6kV);

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