ELECTRON CONSORTIUM JSC

Since 1991

Great things are not done by impulse, but by a series of small things brought together.

Vincent Van Gogh

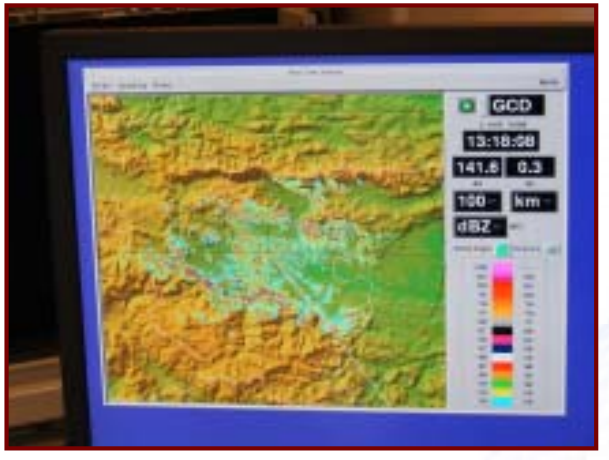
History

- ✓ *Established in 1991*
- ✓ *Successor to the state-owned business group Electron*
- ✓ *Companies-shareholders work in the field of electronics, communication and information technologies, radar equipment and control systems*

Modernization of a meteorological radar

- ✓ *Total replacement of the transmitter, receiver, visualization, antenna control system, positioning sensors and power supply system.*

Modernization of a meteorological radar



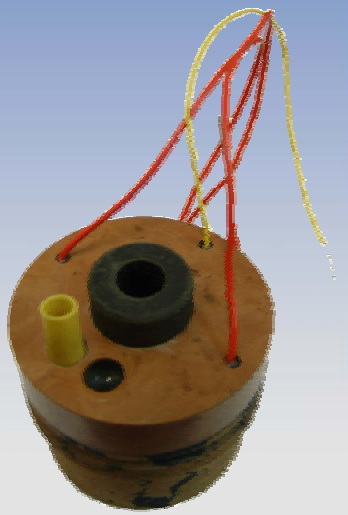
Automatic anti-hail rocket launcher

✓ From a manual device

◄ before...

...and after ►

to a microprocessor-based radio controlled system



Customized control systems

- ✓ Operation in rough or extreme conditions

- ✓ Different communication interfaces

- ✓ Control systems for special purposes

Modernization of mobile communication centers

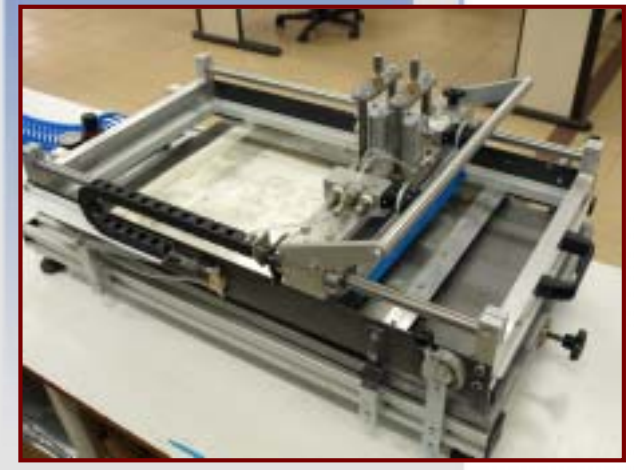
Test Equipment

- ✓ *Specialized Testing*
- ✓ *HF/VHF/UHF*
- ✓ *Microwave*

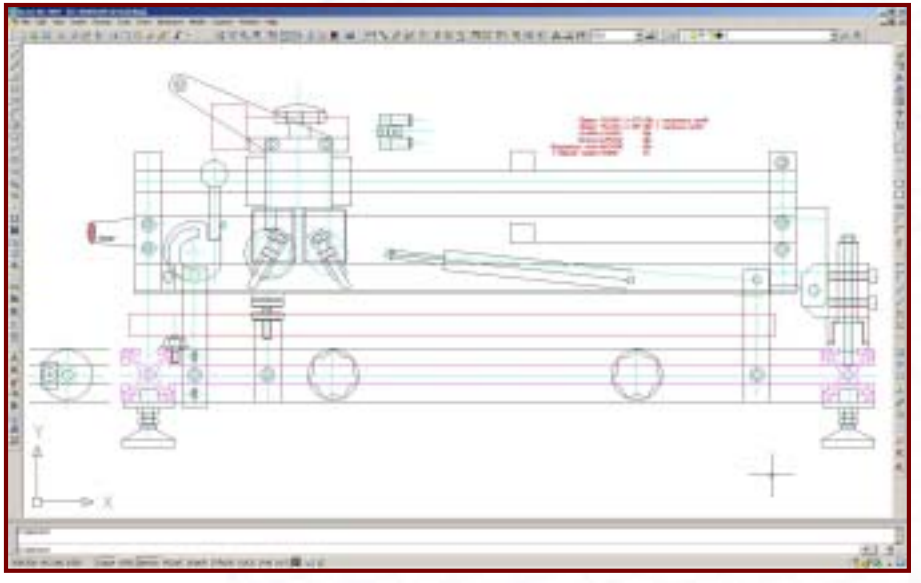
Solar Panel

- ✓ *Automatic tracking of the sun*
- ✓ *Automatic battery charging*
- ✓ *Mobility*

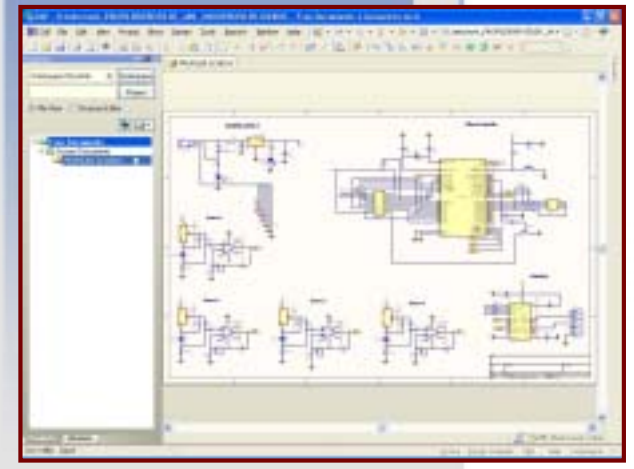
Stencil Printer



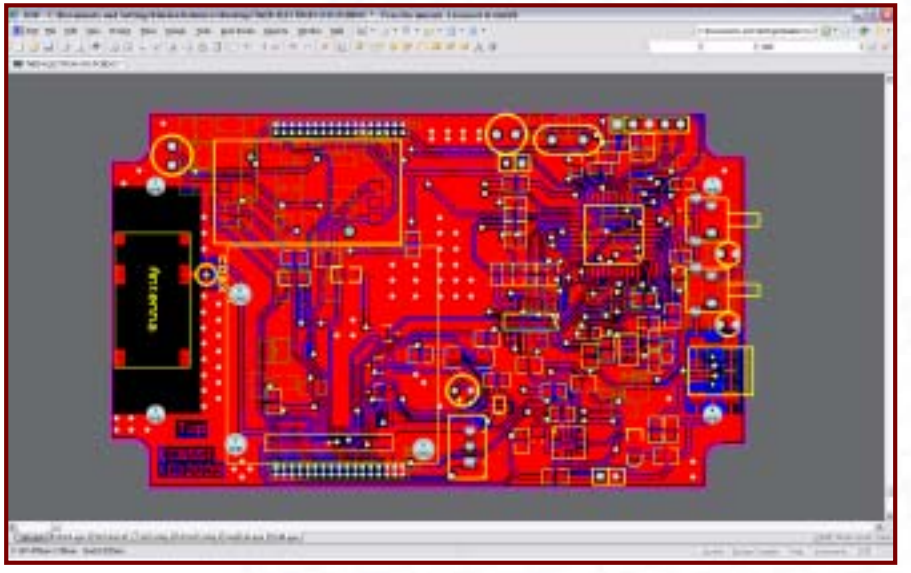
✓ *Designed & Produced by Our Engineers*



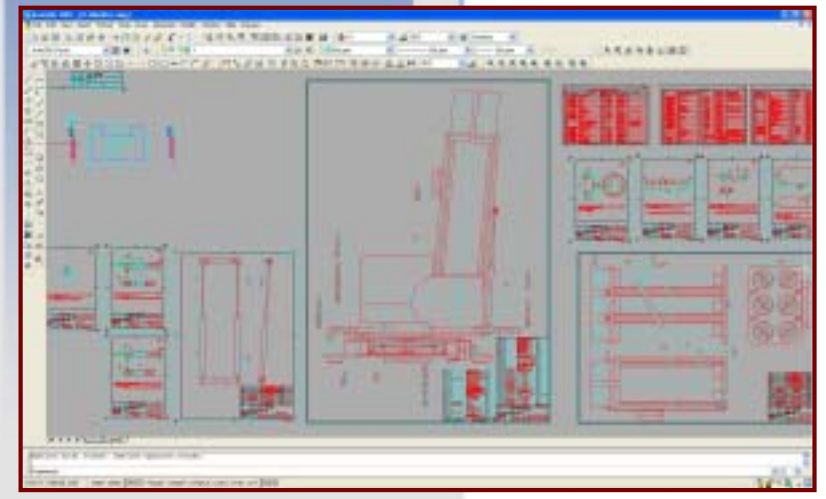
PCB Design



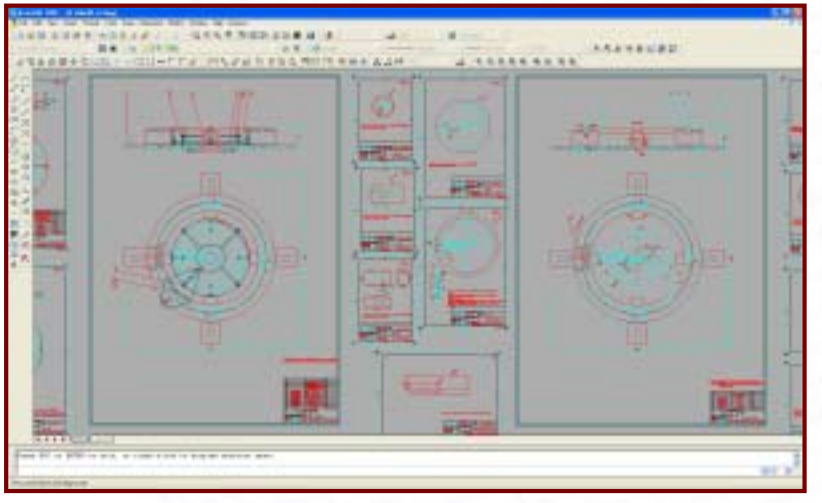
- ✓ *Design from scratch*
- ✓ *Professional schematic & PCB design*



Hardware Design



- ✓ *Complicated Drawings*
- ✓ *Custom Parts Engineering*



Specialized communication systems

✓ *HF radio for railroad transport EK-R01*

frequency telephony - F3E
data transmission - F1D
output power - 10W
receiver sensitivity ≤5µV
dimensions 145x160x40mm
power supply - 10-15V DC

INTRODUCTION TO PRODUCTION

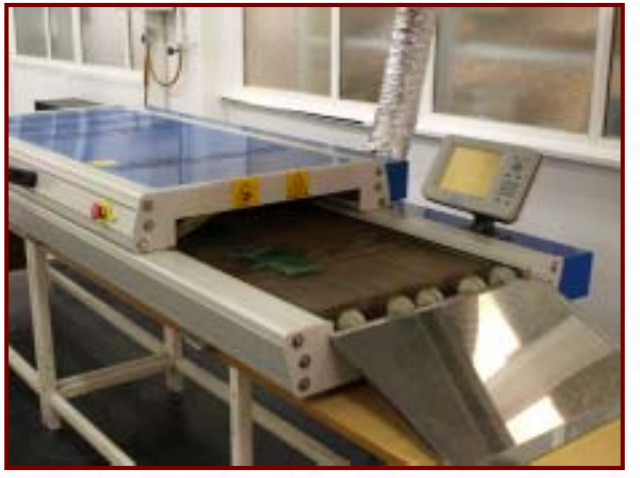
- ✓ *Hi-Tech Production*
- ✓ *SMD Technology*
- ✓ *Quality Control*
- ✓ *ISO 9001:2000*

SMD

Large & Medium series

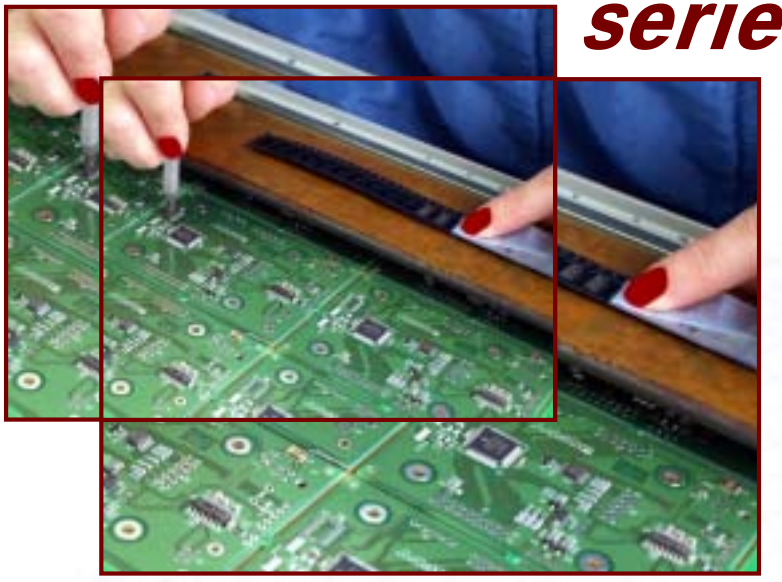
- ✓ Automatic SMD Pick&Place
- ✓ Two Pick&Place Machines

- ✓ 4000 comp/hr
- ✓ 0402 Package
- ✓ Reflow Soldering



SMD

Small & Test series



- ✓ ~500 comp/hr

- ✓ Hand Placed Components by Vacuum Nozzle
- ✓ Reflow Soldering

Through-Hole Department

- ✓ Highly Trained Personnel
- ✓ Manual Soldering
- ✓ Wave Soldering
- ✓ Lead Free

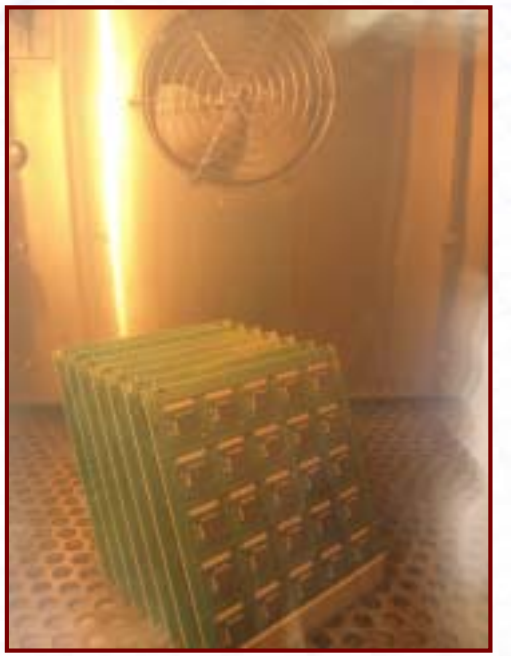
Maintenance & Repair

- ✓ *SMD Rework*
- ✓ *Precise TQFP & PLCC Dismount*
- ✓ *Through-Hole Rework*

Quality Control

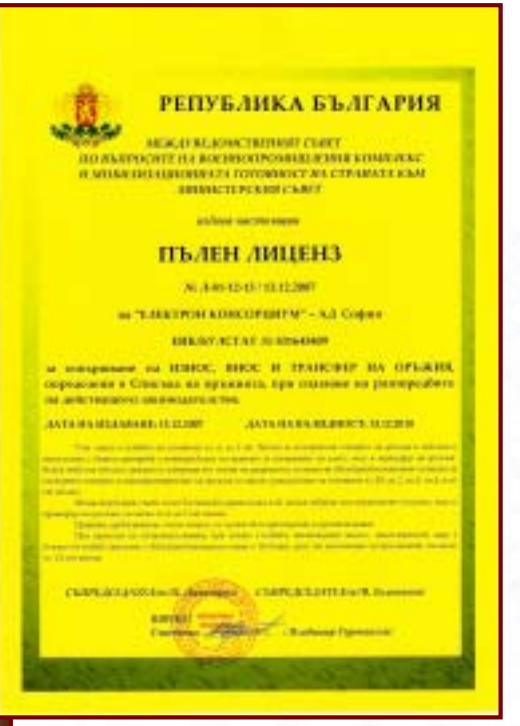
- ✓ *Precise Visual Control*

- ✓ *Mechanical and Climatic Testing*



Trade Activities

- ✓ *Full license for foreign trade with military goods*
- ✓ *HF/VHF/UHF Radios*
- ✓ *Radar Equipment*
- ✓ *Radio-jamming Equipment*



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