

ReDS and today's industry... A perfect synergy

Your Partner for Embedded Systems!

Main Office: Niederwangen (Bern), Switzerland
Branch Offices: Winterthur and Basel, Switzerland, Frankfurt, Germany
Sales Office: Munich, Germany

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Plan

- ✧ **Presentations**
- ✧ **NetModule: a company overview**
- ✧ **NetModule & ReDS partnership**
- ✧ **Conclusion**

Presentations

✧ **An unusual curriculum**

- Grammar school: Gymnase de la Cité, Latin-English section
- UNIL, Lausanne: 1 semester in Law Faculty
- EPFL, Lausanne: 1 semester in Computer Sciences Faculty
- ETSC / CPNV: 1 semester in accelerated apprenticeship

✧ **EIVD / HEIG-VD: 2002-2005, Computer Sciences Dpt**

- Diploma project: «Car's anti-theft system assisted by GPS/GPRS»

✧ **NetModule AG, Bern: April 2006 – today**

- Embedded Software Engineer

Studies at HEIG-VD - Highlights

- ✧ **Qualified professors in contact with the industry**
- ✧ **Well equipped laboratories and classrooms**
- ✧ **Practical and diversified overview on all today's technologies**
 - HW: analog/digital electronics, processors/uC, field buses
 - SW: OS, Databases, Software Design, Networking
- ✧ **Small classes**
 - Better communication
 - “Personalized” education
- ✧ **Diploma project**
 - First contact with real problems

NetModule's organization and offices

**Headquarters
NetModule AG
Niederwangen / BE**

**5 Locations
40 Employees**

**Branch office
NetModule AG
Basel**

**Branch office
NetModule AG
Winterthur**

**Sales office
NetModule GmbH
München**

**Branch office
NetModule GmbH
Frankfurt**

Products

✧ Own products

- NetBox Wireless Router
- WebT
- JPC
- JOPC-Bridge



✧ Distribution's products

- Wind River products: VxWorks/Linux platforms, Hardware debuggers
- Aicas JamaicaVM
- Kuka Controls CeWin/VxWin



Markets and competencies

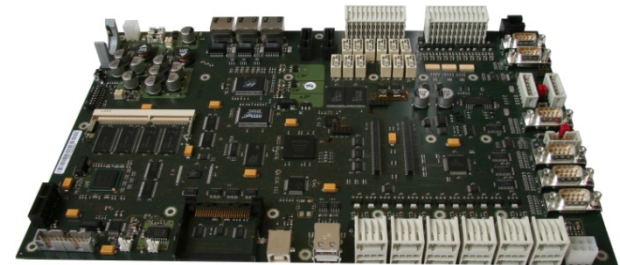
✧ **Telecom – Datacom**

- Voice/Video over IP
- Network gateways
- GSM/GPRS/UMTS routers and gateways



✧ **Industrial devices**

- Automation
- Control
- Data analysis



✧ **Medical devices**

- Monitoring
- Diagnostics
- Emergency devices



Services and Technologies

✧ **Services**

- Engineering: software / hardware
- Consulting
- Training
- Maintenance and Support

✧ **Technologies**

- OS: mainly real-time, VxWorks, Linux, Windows CE
- Architectures: ARM9/11, Freescale PowerPC, DSPs
- Networking: VoIP, SIP, H.323, Real-Time Ethernet
- Field buses: I²C, CAN, Profibus/Profinet

ReDS and NetModule: convergences

✧ ReDS

- Experience with many new technologies
- Huge know-how in open source products
- Qualified resources: professors, assistants, students
- Time to study/evaluate new products/technologies

✧ NetModule

- Clear view on today and short term market's needs
- Need of new resources
- Market pressure
- Concrete projects/products for applied studies

NetModule & ReDS concrete facts

✧ 2 CTI projects

- openVPN integration and SMS framework on the NetBox
- Zigbee & SDIO extension integration on the NetBox

✧ Bachelor or Master Diploma projects

- 10 propositions for next diploma session

✧ Typical project examples

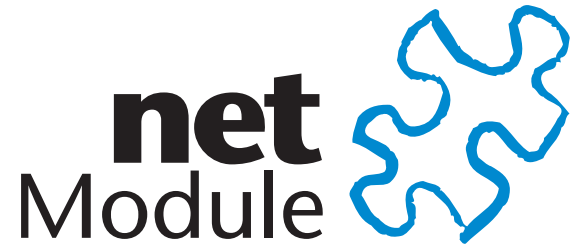
- Web 2.0 for Embedded Systems
- MPlayer on Embedded Device
- Remote Management System for VoIP, IPTV, Network Storage

Conclusion – What's next?

- ✧ **Partnerships are benefit for both, ReDS and industry!**
- ✧ **How to keep this synergy?**

- ✧ **ReDS**
 - Actively promote its skills
 - Keep contacts with former students
 - Maintain studies based on practical education

- ✧ **NetModule – industry**
 - Trust universities and institutes such as ReDS
 - Enforce relations with professors and students
 - Take part in “academic life” more consistently



Thank You

More info:
www.netmodule.com