Professional profile:

Programmer & Software engineer

Eckhard Kantz

Ganghoferstr. 6
82299 Türkenfeld

Tel: 08193 – 9374 745
Fax: 0721 – 151 282783
Email: **e.kantz@wegalink.eu**

Professional focus:	C/C++ programming, Win-Client / Linux-Server, High-Performance Computing
Programming experience:	since 1980
Year of birth, location:	1956, Dambeck near Greifswald / Germany
Education:	Dipl.-Ing. (Univ.) Maschinenbau, Wroclaw University of Technology / Poland, Faculty of Mechanical and Power Engineering http://www.portal.pwr.wroc.pl/345888,242.dhtml?s=346060
Citizenship:	German
Foreign languages:	English
Programming languages:	C/C++
Operating systems:	Win7/XP, Linux (OpenSuse, Red Hat, Fedora, Ubuntu)
Database systems :	Postgres 7.4, SQL
Networking/communication:	TCP/IP, HTTP, GigE Vision
Software / Methods / Tools:	MS VisualStudio 2010, Borland C++ Builder 6, GCC
Working field / industries:	Software architect, programming Software engineering, testing, administration Image processing, performance computing/driver Internet, stock markets, eCommerce Localisation: tools and support

IT projects / fields of work / tasks:

10/2005 – ongoing **Manufacturer of industrial cameras / near Munich**

High-performant transfer of image data in gigabit-ethernet networks, development and application of image processing algorithms for recognizing objects and for analyzing characteristics of image data, in particular for „hardness testing of materials“.

PC, WIN7/XP, DRIVER(WDM), C++

05/2005 – 09/2005 **IT Service provider / Fürstenfeldbruck**

Design and development of modules for modeling business processes with the goal of achieving a highest possible flexibility based on a strategy „Configuration instead of programming“.

PC, LINUX, C++, SQL

03/2002 – 04/2005 **Hedge funds Management / Munich, Zurich, Kaunas (Lithuania)**

Design, project management and development of a stock market information system. My tasks involved the design of a „Securities analysis system“ (World Market Screener) based on a high-performance server cluster. The task involved a situation whereby i had to hire and to lead a team of software developers in Kaunas/Lithuania. At the same time, it was my duty to plan, to install and to run a remote server cluster of Linux-PCs in Munich that analyzed stock market data continuously.

That system consisting of a Linux server and a Windows client part used more than 100 market indicators and trading systems for generating buy/sell recommendations for hedge funds managers as well as to execute transactions automatically on stock exchanges.

PC, REDHAT LINUX 9.0, GCC, POSTGRES 7.2, SQL,
WINXP/2000, BORLAND C++ BUILDER 6.0,
MS VISUAL STUDIO .NET, UNIX SHELL SCRIPTS

04/2004 – 05/2004 **IT Service Provider / Munich**

Design and development of a module for cluster generation (generating of a content structure) of document collections based on a FIHC (Frequent Items Hierarchical Clusters) algorithm.

PC, FREEBSD 5.0, C++, MOZART/OZ 1.3.0,

01/2001 – 10/2001 **IT Service Provider / Munich**

Development of a HTTP web server with additional WebDAV functionality which allows to access web content e.g. from Windows explorer. The task involved participation in interoperability tests in a workshop in Santa Cruz/CA.

PC, FREEBSD 5.0, POSTGRES 7, MOZART/OZ 1.2.2, GCC,
SQL

07/1999 – 04/2001 **ePayment Provider (Internet) / Munich**

Development of an XML based ePayment server which processes credit card payments on behalf of multiple credit card companies. The task involved the design and development of the system, to lead a small software development team and to support operation of the system.

SUN SOLARIS 7, ORACLE 8.0, FREEBSD 4.2, C, C++, GCC, XML, SQL, RSA/BLOWFISH

02/1996 – 06/1999 **Munich subsidiary of an American localization company**

Besides actual translation of text, the localization of documents involves also engineering tasks that support translation and provide for desired document layout in target languages. It was my task to develop those tools which support high-quality translation of documents along with tools for related engineering work. The programs were used e.g. for handling context-related terminology in a proper way as well as for supporting the use of translation memory systems.

PC, WIN 3.1/95/NT, DELPHI, PASCAL, PERL, COM

01/1991 – 01/1996 **IT Service provider / Munich**

Development of software for financial transaction processing (DTA) based on data storage media like floppy disks. My tasks involved format software for all kinds of storage media like magnetic tape streaming devices and floppy disks.

PC, DOS, MS C4.0, WATCOM, C, C++

05/1985 – 12/1990 **Nuclear power plant / Greifswald**

I was employed in the department for measurement and control services which maintained computer systems and measurement instruments. My tasks involved developing programs for consolidating a comprehensive set of operational data of temperature and presure of water-water energy reactors (WWER) into overview data that was used e.g. by reactor operators for ensuring a safe operation of all systems of nuclear power plant blocks of 440 MW electric power each.

ROBOTRON PRS4000, Z80

05/1983 – 04/1985 **Electronics company / Greifswald**

Development of microcontroller software, e.g. for in-curcuit testers of electronic boards (PCBs).

Z80

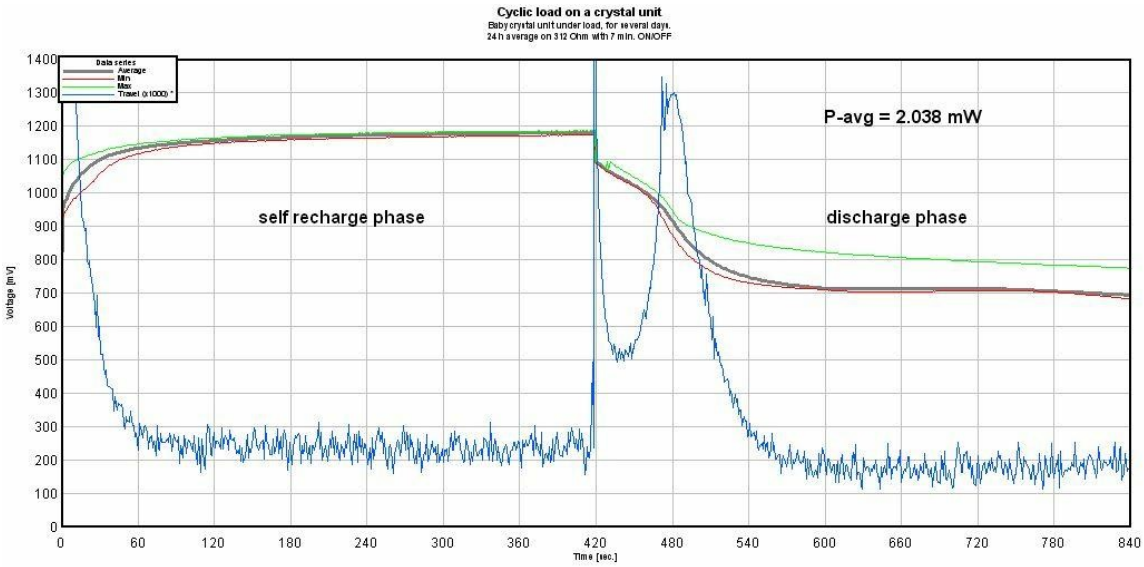
05/1980 – 04/1983 **Nuclear power plant / Greifswald**

Same as 1985-1990

ROBOTRON PRS4000

Research & Development in my spare time

In last years of the old millenia I became more and more interested in new energy technologies which are known nowadays as „**Space Energy Systems**“ although they haven't been officially introduced yet (January 2012). The American researcher Thomas E. Bearden was one of my teachers in this field and I am grateful for his publications.

Mid 2005 I became acquainted with Marcus Reid, a German co-researcher of Tom Bearden who focused on crystal cells that are one of many known space energy converters. I am obliged for receiving the great chance to conduct own experiments on crystal cells during the following years.

Above picture shows a crystal cell in comparison to a NiMH battery which I used during a multi-years investigation program that aimed at finding out about all known as well as amazing unknown features of those energy converters. One of those unique features that could be proven is for example their ability for “self-charging” after a discharge phase.