

**Curriculum vitae for
Dennis Kuhn**

Personal information

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(*known as Dennis Kuhn*)

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Introduction

When I was ten years old (1987), my parents bought my first computer, a PC/XT. I started to learn programming and found my love automation. It is my dream, to one day automate my entire home.

Outside the computer world, I am a social person and enjoy all sorts of parties. I am filled with enthusiasm and love to launch projects, and help motivate people to work on it.

In May 2003 I left Germany to explore the world, while backpacking in Australia I heard about “kiwis” and how innovative New Zealand is. After one year fruit picking, I left Australia and headed to New Zealand. Over the last year I have meet many new people and friends, and enjoyed starting new projects (COINNZ Ltd. for instances). Now time to concentrate on my career and seek residency here in New Zealand.

Since 2003 I have been self employed by my company DennisSystems. Although DennisSystems was founded in Germany, it has been New Zealand company since January 2005. Along with my self, I also employ one more staff member.

Study

I attended Bruehlwiesen School, an IT specialised college. After the compulsory civil services, I continued to university and graduated with a **Diploma engineer of Computer Science** in March 2003. My qualification is ranked in New Zealand, as a Bachelor of Science (Level 7) from the NZQA. I received the best possible mark for my diploma work (documentation is written in English). The direction of my study was called **Technical Scientific Application** and **System-technique**. At the university I was always a top student and socially engaged. My favourite subjects were:

Subject	Mark
	1.0(best) - 4.1(failed)
C++ (Beginner & Advanced)	1.0
Java (More Advanced)	1.3
Assembler	1.0
Operating Systems	1.0
System Analyses (mainly in UML)	1.3
Software Architecture (COM+, .NET, Problem Frames)	1.0

Experience

I have worked most of my life, even through studying. After graduated I became self-employed doing C++ programming and system design. The kernels of my projects were all solitary. Therefore I learned to organise myself, find information-sources and cooperation's. Briefly depict "Strong physical/mathematical background, well founded programming skills, grown design abilities"

Through this I have experience in the following areas.

Topics:

- Object orientated design (Competent)
- Automation (Competent)
- Operating Systems (Competent)
- Windows NT-Device-driver (Limited Use)
- Mathematical Analyses (Limited Use)
- Demonstration-Software (Limited Use)
- Homepages (Competent)
(<http://www.DennisSystems.net>)

Software / Operating Systems:

- Microsoft Visual Studio (Competent)
- Linux (Competent)
- Office Software (Excel, LyX (Limited Use))
- Windows 98 (Limited Use)
- Windows NT (Limited Use)
- Windows XP (only user)

Spoken languages:

- German (native-language)
- Technical-English (good)
- Everyday-English (good)

Hardware:

- x86 Processor-family
- Virtual MMIX-Processor developed by Dr. Donald E. Knuth (MIT)
- Virtual ECO32-RISC-Processor developed by Dr. Hellwig Geisse
- Self developed I²C-Bus devices
- Siemens MC 8051

Programming languages:

- C++ (MFC, STL) (Extensive In-depth Use)
- Linux scripting (bash, sed, awk) (Competent to in-depth use)
- UML (intermediate)
- C (Competent)
- Some assembler dialects (Competent)
- HTML/CSS (intermediate, <http://www.DennisSystems.net>)
- Turbo Pascal (intermediate)
- COM (Limited use)
- Java (Limited use)
- PHP (Limited use)
- LISP (Limited use)
- JavaScript (Limited use)
- XML, DTD (Limited use)
- My-SQL (Theory and design in ERD)

Employment summary

The table shows the variety of jobs I have done. Usually I had a balance between developing and teaching. Even DennisSystems employee, was at the beginning a kind of a protégé.

since 01/2005	System designer and director at DennisSystems Ltd. (New Zealand)
since 06/2004	System designer and director of COINNZ Ltd... (New Zealand)
02/2003 - 01/2005	Self-employed C++ Developer (HW/SW Designer, Programmer)
11/2002 - 02/2003	(Unix v7 port) Diploma work at the University of Applied Science
12/2001 - 12/2002	1st Chairman of the students representatives at my faculty
09/2001 - 02/2002	Tutor in subject System-Analysis
03/2001 - 07/2001	Tutor in subject Operating-Systems
07/2000 - 02/2002	C++ Developer at HighTronix Wetzlar
03/2000 - 06/2000	C Programmer at the Pre-development at VDO Wetzlar
05/2000 - 02/2003	C++ Developer (HW/SW Designer, Programmer) at PMK GmbH Heussenstamm
01/1999 - 07/1999	Self-employed with an Internet Service Agency (Setting up Win98 PCs for Internet use)
01/1999 - 10/2003	Teaching in private lessons math and C++ programming

Employment History

System designer, developer, director at DennisSystems

I founded DennisSystems in March 2003 in Germany. The company grew from my development activities for PMK GmbH. With the opportunity to employ a gifted Kiwi, I founded DennisSystems Ltd. in New Zealand in January 2005.

DennisSystems services reaches from **server monitoring and mirroring** to **automation** and **office environment setup**. We mirror the groupware sites and backup their data. Or short "We make sure that you business runs without brakes". DennisSystems is committed to the Open-Source world.

My role as C++ programmer and designer is almost completed. The last C++ project is going to be released very soon. DennisSystems is now at a stage, where my employee can implement and sell our products by himself.

Responsibilities:

- **System design:** Design of all DennisSystems projects.
- **Director:** Organising office and cash flow.

Achievements:

- **Automation Software:**

I wrote a few automation programs to order for PMK GmbH. All application support transfer of the generated HTML-reports to an ftp-server.

- **P-Chamber:**

The usability of P-Chamber has been the key to its success in the market. This product controls climate chambers¹. The entire configuration is XML-based. The main characteristics are:

- Easy to use and control
 - Adding new chambers only via configuration (if controllable by an existing driver)
 - Changing language (every single text) via configuration

This program is used to simulate the aging process of a product. This application will most likely be sold worldwide in 2006. The project is in cooperation with "DennisSystems Ltd. (Design and implementation)", "PMK GmbH (Project Coordination)", "Thermotec (Distribution)" and "Espec (World wide distribution)"

- **P-Cal:**

This application generates High-voltage-Probe Calibration-Certificates. I developed the controlling I²C Hardware, which has the following tasks :

- switching between Probes and Reference-Divider,
 - DA-Converter to control the voltage and current of the High-Voltage-Generator.

P-Cal utilises Voltmeters, High-Voltage-Generators and climate chambers.

- **P-Test:**

This program ensures the quality of probes, according to rise-time, overshoot and similar values. It is configured in an abstract way, which enables various test-scenarios. The tests reach from detailed reports for single probes to mass tests with statistical breakdowns.

P-Test utilises oscilloscopes, differential amplifier and pulse generators.

- **Guardian System design:**
The guardian monitors servers of our customers. In the event of failure it alerts us. The alert starts with an Instant Messenger message, continues with mobile text and finally the phone rings. Therefore we ensure reaction to failures at any time.
- **Shared server design:**
Designed and implemented prototype of our server, which is running scripts, storing data, hosting groupware for several companies. The companies access their service via own sub-domains like: `phpgroupware.customer.co.nz`. We maintain the sub-domains.
- **Mirroring and fall-back-server design:**
If the local server of a customer crashes, our server takes over its work. If the main-server is unavailable (due crash or failure in Internet connection) other server taking over the work within 1 minute
- **<http://www.DennisSystems.net> designed and implemented:**
The web-page is viewable under many different browsers. With and without JavaScript. With and without graphic support (text-browser).

(Germany) founded COINNZ Ltd. We developed together the COINNZ-kit which consists of:

- **COT** is the **coin operated terminal**. A PC which the user uses to go into the Internet. This is the only part which is seen by the user.
- **LocServs** are the gateway to the internet. They establish the connection between COT, coin acceptor and internet.
- **Maid** is a service running on a server, which collects all data generated by LocServs (via the jabber protocol)

A COINNZ-Kit is a combination of COTs and a LocServs. They are placed in café like environments and report everything to maid. With this data invoices can be printed on our website.

Responsibilities:

- **System-Designer:**
Creation of an inexpensive and easy to duplicate system. The system is a Debian-Linux server connected to any PC/Laptop (terminal). A MFC application locks and unlocks the terminal. It displays advertisement while it is locked. User IDs and statistical data are exchanged between all LocServs. The communication is PGP encrypted via the Jabber IM-protocol.
- **Software and System-developer:**
Implementing the client software and big parts of the server software. Setting up FTP-, Samba-, Mail-, Web-, DHCP- and Gateway-server.
- **Director:**
Organising investors and administrators. Keeping the group and company running. Pushing dead lines and sales people.

Achievements:

- **COINNZ-Kit in several locations:**
The locations reach from Helensville to Tairua. Within two weeks I designed and developed the first prototype. In the following month I extended the system to be based on jabber and a My-SQL database. Newest feature is the web based invoicing.

C++ developer at the PMK GmbH

The company PMK, produces and develops low voltage to high voltage probes. My task there was to automate the process of quality checks, and to document the newly reached quality ranges. I designed the software in a highly configurable way. It is possible to configure the resulting report via an XML-template. I also designed the small hardware circuits to be run by the software. Both applications share the same template-mechanism which I developed.

Responsibilities:

- Software- and Controlling-Hardware-Designer,

Achievements:

- The applications P-Cal, P-Test and P-Chamber are described on page 5

1st chairman of the student representatives

At the end of my 5th semester (end 2001), I became elected to the first chairmanship of the student-representatives- council, with 7 of 7 votes. At the beginning, the student-representatives-council consisted of two opposite rivalling parties and was not frequently visited by the students. Therefore I had the role of an arbitrator and motivator between the two rivalling parties. Within 3 months I formed one motivated group. After that I reorganised the whole student-representatives room and launched some new projects. I delegated the work and new projects fairly to all active members.

Responsibilities:

- Build up close contact to professors and administration
- Arbitrator between students and academic personnel
- Motivator of the group
- Launch, organise and delegate new projects

Achievements:

- Merging of two rivalling parties
- New local Network with two new PCs, Laptop connections and a Mosix-Cluster
- Regular visit of congresses and councils
- Established a team which still (2005) full fills our initial goals

Industrial placement at the HighTronix GmbH

HighTronix is small company specialised in developing key components for optical 3D measurement using the triangulation algorithm. I entered the company in an Industrial placement semester and worked there for a year next to my study.

My work was divided into the following sections:

- **Windows NT device driver:**

I redesigned one ISA-board-device-driver and implemented a new driver for an ISA-encoder-board.

- **Demo-software and Hardware Debugger:**

Both projects were developed by two temporary workers and myself. My roles were to :

- mainly design the software
- lead the temporary workers to implement the Graphical User Interface
- and implemented the hardware related stuff

- **Finding and extracting the preparation-border at a tooth:**

Very mathematical project, the data consists of around 500'000 3D-points which were divided in many SPLINES which got derived and analysed.

Responsibilities:

- NT-device-driver developer
- Demo-software designer
- Small group leader
- Pub meetings

Achievements:

- 2 new NT-Device-Driver
- 1 Demo-software used on exhibition
- 1 Hardware Debugger

Industrial placement at the VDO Wetzlar GmbH

The VDO Wetzlar develops and produces car-navigation-systems. I was placed in the pre-development to implement a network-stack in C. The network-stack was implemented according to the OSI-layer models, I implemented layer 0 (physical) - 4 (application). I also built the test-devices by hand. The stack was implemented in C on a Siemens MC 8051 micro-controller.

Teaching private lessons

I taught private lessons :

- one engineer in **C++ programming** from 2/2002 until 5/2002.
- One student in **basic-Math** from 11/2001 until 2/2002.
- Prepared a couple of college-students for the **final Math-test**.
- 1 college-student from 1/1999 until 5/2001 in **Math**.
- 1 secondary school student in **Math** from 11/1999 until 4/2000.

Thanks to the variety of students taught, each with their own unique way of understanding, I learned that teaching styles need to be adapted for each student. I also learned very quickly that a private teacher is a kind of a mental-doctor. The combination of individually adapting my style of teaching to one unique being and clearing their head of problems, was, and still is, very interesting for me. Another gift from the teaching was that I learned to be patient.

I offer

- Competence
- Intelligence
- Enthusiasm and making others enthusiastic
- Communication skills
- Goal achievement
- Competitiveness
- Self-knowledge
- Flexibility
- Direction
- Willingness to accept responsibility

Interests

In my leisure time I am doing a lot with the Linux operating system. Especially I do Bash-scripting to let the world be more comfortable and automated. A bit more practical is my interest facility automation and alternative water supply.

Since I am young, I enjoy being social engaged. As a child I helped in a SPCA. Between college and University, I done my civil year (compulsory army service substitute) caring for people in a mental institution. At university I enjoyed leading the Student representivs to success. In Paeroa I help a handicapped with his PC.

For relaxation, I enjoy the nature during daytime, with some sight-seeing walks and visits.

After dusk I love to go out to GOA/Techno-Parties. Jethro Tull and music of the 70s gives me the needed contrast to the monotone techno-*music*.

Conclusions

My computer experience is well founded. I started programming in the year 1987 with BASIC followed by Turbo Pascal. Since then I gained experience in Assembler and C++. The university granted me basic knowledge about Java, C# and Lisp. My programming skills reach from the bottom to the top of the abstraction-layer. I love to design abstract and complex systems with UML.

Additional to the technical skills, I am highly motivated and motivate people around me. My leadership and motivation skills are documented in several reference letters.

Referees and References

- **Owner and Manager of Paeroa Computer Services, Corey Sewell:**
E-Mail: info@paeroacomputers.co.nz Phone: +64-7-862 77 06
<http://D.ennis.de/References/PCS.pdf>
- **Technical manager of the PMK company, Jens Heimann:**
E-Mail: jh@pmk-gmbh.com Phone: +49-6104-665692
<http://D.ennis.de/References/PMK.pdf>
- **Administrative director of COINNZ Ltd, Peter Withey:**
E-Mail: Pete@coinnz.net Phone: +64-7-862 78 05
<http://D.ennis.de/References/PeterWithey.pdf>
- **Study-dean of the faculty MNI at the University of Applied Science in Giessen/Germany.**
E-Mail: Thomas.K.Letschert@mni.fh-giessen.de
<http://D.ennis.de/References/Dean.pdf>
- **Manager of HighTronix GmbH, Nurten Oezbeyaz:**
<http://D.ennis.de/References/HighTronix.pdf>
- **Manager of the Granite Belt Harvesting Company in Stanthorpe/Australia:**
<http://D.ennis.de/References/FruitPicking.pdf>
- **Administrative director of COINNZ Ltd, Tim Morgan:**
E-Mail: tim@coinnz.net Phone: +64-7-863 85 40
<http://D.ennis.de/References/TimMorgan.pdf>

Qualifications

- **NZQA evaluation of my diploma** <http://D.ennis.de/Diploma/nzqa.pdf>
- **IELTS English Test** <http://D.ennis.de/Qualifications/EnglishTest.pdf>
- **Engineer of Computer Science Diploma (German):**
<http://D.ennis.de/Qualifications/Diploma.pdf>
- **Void criminal record (translated):**
<http://D.ennis.de/Qualifications/CertificateOfConduct.pdf>

Documents and sites

- **DennisSystems web page:** <http://www.DennisSystems.net>
- **(old) Private web page:** <http://D.ennis.de>
- **CV (long):** <http://D.ennis.de/References/cv.doc>