

Curriculum Vitae for Mark William Zealey

General information

Name: Mark William Zealey
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Home Address: 10 Scrivens Mead, Thatcham, Berkshire, RG19 4FQ
Secondary School: Kennet School, Thatcham

Education

University

I have received an offer from Cambridge university to study Mathematics there starting October 2003. I am confident that i will achieve the grades necessary.

A-levels

Subject	Predicted grade
Maths	A
Further Maths	A
Physics	A
Chemistry	A
Computer Science	A

GCSEs

Subject	Grade
Science (double award)	A* A*
Maths	A*
French	A*
English Language	A
English Literature	A
German	A
Geography	A
Control Systems Technology	A
Religious Education (short course)	A
Information Technology	A
Music	B

Programming experience

Have been programming for many years, and I have coded programs in the following languages:

- 8 years with **C**
- 5 years with **perl**
- 5 years with **bash/sh**
- 4 years with **i386 assembler** (Both **nasm** and **AT&T** syntax)
- 4 years with **L^AT_EX**
- Some experience with **HTML**, **C++**, **Visual Basic**, **Basic**, **Java**

Project experience

- **jMSN** - This is an MSN client which i have written in **perl**. I reverse engineered the MSN protocol from scratch to implement this 3000 line perl program. The latest version can be fetched from <http://pkl.net/mark/jMSN-0.5.9.tgz>.
- **Linux** - I have made several patches for the Linux kernel and understand most of the i386-specific and core kernel code.
- **MPlayer** - I have made several significant patches for this media-player which is written mainly in **C**. I also wrote a driver to display output straight to the TDFX Voodoo series of graphics cards, which is about twice as fast and efficient as any X-based driver. <http://www.mplayerhq.hu>
- **ZealOS** - A nano-kernel based operating system which i have been working on for several years. It does not currently do much but it can perform various routines such as reading a hard-disk. It is designed to be totally modular and has about 20,000 lines of **C** and **assembler** code.
- **GrabIt** - A perl program to look for the latest versions of programs from various FTP sites.
- I have written a number of utilities in **perl** to work over the internet. I have also written an MP3/OGG player with some stream effects.
- I maintained St. Nicolas' church's web site for 5 years with some perl scripts I wrote. See www.st-nicolas-newbury.org for more information.

Work experience

- I currently do part time work for ITSolve, tasks include:
 - Programming perl
 - Setting up a Virtual Private Network for all client networks
 - Fixing network problems
 - Systems administration of the servers (about 10 in all)
 - Building up new computers for clients (Linux or Windows)
- Did a week of work experience for Quantel in Newbury

Achievements in school

- Have achieved a gold (Top 1% of students in the UK) Maths Challenge certificate for the three years I have taken the test and was top of my school once.
- Was part of the winning team from my school in the Berkshire AWE young engineers' challenge in 2000 (There were about 30 schools competing from all over Berkshire). In the challenge, we had to build a catapult, ours was the most accurate at hitting a target 5 metres away.
- Was involved in the National Fire Safety Quiz for two years with a team from my school.
- I am currently grade 5 on the trumpet.
- In my year 9 SATs, I achieved a level 8 in maths (top), a level 7 in Science (top) and a level 6 in English.

Spare-time activities

- Do a lot of work in my **church** (St. Nicolas' Newbury), I run the **sound system** there and am involved in many activities including helping to run clubs for my peers and younger people. I feel that this helps my leadership skills.
- I spend a lot of time racing sailing dinghies both on the sea and on inland lakes (such as Burghfield and Windermere)
- Enjoy **sports** such as cricket, soft-ball, badminton, mountain-biking and swimming.