

# David Willett

Software Developer

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Sutton Coldfield B74 2PJ

## Areas of Expertise

### Extensive use

Python with wxWidgets  
C/C++ with MFC and STL  
Java & Kotlin  
JavaScript/TypeScript  
Linux (OpenSUSE & Ubuntu)  
JetBrains Developer Tools  
Version Management / Git  
OO Design  
MVC Architecture  
REST APIs  
XML and JSON data formats

### Some use

Apache and Nginx  
SQL and ORMs  
PHP with Laravel  
Django  
Spring Boot  
Node.js with Express  
React  
Vue  
HTML/CSS  
Bootstrap  
Puppeteer  
Android  
Dart with Flutter

## Summary

After completing my PhD in 1998, I was employed as a software developer until 2003, when my then employer ceased trading. Taking this as an opportunity to become self-employed, I began writing and marketing my own software. In 2005, I stopped full-time work in order to care for my son, but continued working part-time from home as a freelance technical translator.

Now, though, I am able and keen to return to full-time work as a software developer. I have enjoyed familiarising myself with modern development languages, frameworks and methodologies over the past couple of years and look forward very much to creating software as part of a team again!

## Employment experience

### TECHNICAL TRANSLATOR 11/2005 – Present

Self-employed, Aachen and Sutton Coldfield

- Freelance German to English translation, focussing on scientific, engineering and technical documents.
- Developed TBooks (in Python) invoicing system and a marketing website (HTML/CSS/Bootstrap) for use in my translation business.

### SOFTWARE DEVELOPER 10/2003 – 11/2005

Self-employed, Aachen

- Development, documentation, marketing, and support of the timetabling program "FineTime" (in Python) as a one-man company.
- Design of a bilingual web site for marketing FineTime.

### SOFTWARE DEVELOPER 08/2001 – 09/2003

CWA GmbH, Aachen

- Design, specification, and documentation of expert system software (in C++) for medical applications as a member of an international team based in a number of countries, including the USA.
- Development of cardiac home monitoring system (in Java).

### SOFTWARE DEVELOPER 12/1998 – 07/2001

INFORM GmbH, Aachen

- Development and maintenance of a commercial software package (in C++) for airport logistics within a team of nine developers.

## Portfolio

### Applications:

[HORSE](#)  
[CSGObot](#)  
[TBooks](#)  
[FineTime](#)

### Websites:

[lgmowerservices.co.uk](http://lgmowerservices.co.uk)  
[rebeccaclarke.org.uk](http://rebeccaclarke.org.uk)  
[scnblibdems.org.uk](http://scnblibdems.org.uk)  
[englische-uebersetzung.de](http://englische-uebersetzung.de)

## Professional Skills

- Able to work independently and as a team member
- Highly self-motivating
- Enjoys solving problems and keeps going until they are solved
- Scrupulous attention to detail in every area of work
- Used to meeting deadlines, whatever it takes
- Ability to appreciate wider business goals as well as focussing on individual aspects
- Wide-ranging general knowledge of computers and software

## Additional Information

British national  
Fully equipped home office  
Fluent German speaker  
Full, clean driving licence  
Hobbies: electronics, local politics

## RESEARCH ASSISTANT 09/1997 – 08/1998

University of Manchester Institute of Science and Technology

- Experimental work on the development of a new method of surface preparation using plasma. Publication: J. W. Bradley, D. M. Willett and Y. A. Gonzalvo, *J. Vac. Sci. Technol.* **17**, 3157 (1999).

## CNC PROGRAMMER 04/1987 – 08/1990

Promil Engineering Ltd., Sutton Coldfield

- CNC machine programming, training and advice.

## LABORATORY ASSISTANT 09/1986 – 02/1987

Admiralty Research Establishment, Poole

- Industrial placement – development of laboratory control programs.

## Education

### PhD: PLASMA PHYSICS 09/1994 – 08/1997

University of Manchester Institute of Science and Technology

- Thesis titled "Magnetohydrodynamic Models of Plasma Equilibria in SPHEX" (computer simulation of plasma configurations)  
Publications:  
D. M. Willett *et al.*, *Plasma Phys. Cont. Fus.* **41**, 595 (1999);  
D. M. Willett *et al.*, 24th Euro. Conf. on Cont. Fusion & Plasma Phys., *Europhys Conf Abs.* 21A, I, 389, Berchtesgaden (1997).

### BSc (Hons) Class I: PHYSICS WITH ASTROPHYSICS 09/1990 – 07/1994

University of Kent at Canterbury

- **Final Year Project:** "Calibration of the Huygens Probe Penetrometer"  
Publication: R. D. Lorenz *et al.*, *Meas. Sci. Tech.* **5**, 1033 (1994).
- **Prize:** Faculty of Natural Sciences Award for the best first-year examination results.
- **Study Year in Germany** at the Philipps-University in Marburg.

### BSc (not completed): ELECTRONICS AND PHYSICS 09/1984 – 07/1986

Loughborough University of Technology

### A-LEVELS 09/1982 – 07/1984

Bishop Vesey's Grammar School

- Physics: **A**, Mathematics: **B**, Chemistry: **B**, General Studies: **A**

### O-LEVELS 09/1978 – 07/1982

Bishop Vesey's Grammar School

- English Language: **A**, Mathematics: **A**, German: **A**, French: **A**, Latin: **A**,  
Physics: **A**, Chemistry: **A**, Biology: **A**, English Literature: **C**