

Curriculum Vitae – Adrian Lock

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PROFESSIONAL PROFILE

I am a highly technical, senior software developer based in the south of England. I have 21 years' experience writing innovative applications on Windows operating systems. For the last 17 years this has been predominately in C# and C++.

My specialty is in looking to solve challenges that other developers deem to be impossible. My low-level knowledge of the Windows operating system allows me to stretch the limits of the technology and achieve results that bring unique selling points to the software that competitors struggle to match.

Languages:	C#, C++ & VB
Platforms:	Windows 95 to Windows 10 (32 & 64 bit)
Databases:	Oracle, SQL Server, MySQL & AS/400

PROFESSIONAL EXPERIENCE

[Barnes International, The Loft, St Clair's Farm, Wickham Road, Droxford, Hampshire, SO32 3PW](#)
Senior Software Engineer
November 2018 – present

Employed to help turn a collection of highly technical tools into a suite of modern and easy to use applications.

The Barnes software provides full testing capabilities of all modern contactless and chip & pin bank cards. The software can simulate a transaction while capturing all of the data from the card and validating it against the relevant specification provided by the scheme.

[Original Software, Grove House, Chineham Court, Basingstoke, Hampshire, RG24 8AG](#)
Development Team Leader
March 2004 – October 2018

As well as leading the entire development team, I was solely responsible for the architecture and the majority of the development on the core product. TestDrive is an entirely script-less automated testing solution that enables non-programmers to harness the advantages of automated testing.

TestDrive allows automated testing to be performed across many different technologies including native C++ and Visual Basic applications, managed .NET applications, Delphi, SAP, Lotus Notes, Flex, IBM 5250 emulator sessions as well as websites in both Internet Explorer and Firefox.

This type of development requires large amounts of R&D and a comprehensive low-level understanding of how applications run on the Windows operating system. Almost single handedly, I have produced a solution that has allowed Original Software to become a competitor to companies like Microsoft, HP, IBM and Micro Focus and be recognised in the Gartner Magic Quadrant.

Sliding Mind Ltd, The Courtyard, High Street, Chobham, Woking, Surrey, GU24 8AF

Cofounder and Developer

May 2010 – October 2018

Whilst at Original Software, I identified a new and untapped market that could make use of the R&D I had performed. Working with the intellectual property owner, we developed an entirely new product for the support and help-desk markets under a new brand.

TrackPath continuously tracks all user activity on any PC running a modern Microsoft operating system so that a full, user-friendly audit trail is instantly available in the event of operating system or application problems. This makes TrackPath the perfect solution for large user communities supported by a central help desk. The help desk operators are no longer reliant on the ability of a user to recall the steps that led to their problem as the user can send a fully documented audit trail with two mouse clicks.

Tessella plc., 26 The Quadrant, Abingdon Science Park, Abingdon, Oxfordshire, OX14 3YS

Senior Analyst Developer

August 1999 – March 2004

I joined Tessella after completing my physics degree and worked my way up the hierarchy. I worked on a variety of projects that required software written to specific standards such as ISO9001 and FDA 21 CFR Part 11 for use in medical and scientific industries. During the last two years, I acted as team leader on all of my projects, in teams of up to 5 developers. Below are some of the major projects I lead:

- Designed and developed a C# .NET application which connects to SQL Server. The application was written to mimic the interface of Microsoft Office 2003 for a clean modern look and ease of use.
- Provided development support for a telemedicine application written in Microsoft Visual C++ 6. This included designing and developing the database to store confidential patient data. All documentation and code had to comply with strict quality standards so the system could gain FDA approval for medical use within the USA.
- I developed a Visual Basic application to plot graphs of traffic data obtained from road sensors. The graphs are used to monitor the flow of traffic and the effectiveness of overhead road signs on some of the busiest roads in the UK.
- Designed and developed a Visual Basic application that logs data from a water-monitoring device via an RS-232 interface. This allows the device and a PC to operate in a support free environment.

EDUCATION

University of Reading

BSc Physics 2:1

September 1995 – July 1999

My final year project included writing a Visual Basic program to simulate an electronic synthesiser used in first and second year experiments to create Fourier Waves. The course supervisor has since decided to use my program in conjunction with the equipment for future courses. During my education I become proficient in the following programming languages: Turbo Pascal, Miranda, Top Speed Modula 2, Matlab and FORTRAN.

Alton College

September 1993 – July 1995

A Levels: Computing (A), Maths (B), Physics (B)

Perins Community School

September 1988 – July 1993

GCSEs: 10 grade C or above
