

Bernd Wechner – Quality Assurance Manager

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0427-651112 (SMS prior to call)

Skills

Math and Physics, Software Engineering, Programming, Networking and network management, Project management, Team management, Technical writing, Training course design and delivery, Quality assurance, Process automation, Language and cultural awareness.

Professional Summary

Quality Assurance Manager

I started formal testing on payphone systems, have professionally tested Tasmanian Government websites in development, supported development of a regression testing automation system, managed a quality assurance team across three corporate divisions (stable software releases, venture software development and hardware measurement systems), implemented testing in Python and with Django and with pywinauto and Selenium (browser testing). I champion quality both hands on and at a policy and organisation level.

Full Stack Developer

With a masters degree in Information Technology and Telecommunications, I manage a LAN, with servers, and develop websites for personal and community use. Strengths include all levels from bare metal up to the UI (though I favour good designers for UI work support). My favoured stack at present includes: Ubuntu, Lighttpd, uWSGI, memcached, PostgreSQL, Django and naked JS client side with modest jQuery support. I have worked with Redhat, MS-Server, Apache, IIS, ASP, C# .NET, PHP and can bring into service any framework on demand of course, not least any of the front-end frameworks be that React, Angular, Vue, Svelte ... they all require modest familiarisation effort.

Automation Engineer

I am a great champion of automation where it is possible. I cut my teeth on supervisory automation systems for cold rolling steel mills (FORTRAN on MicroVax VMS) and more recently was automating software testing for Echoview (Hydroacoustic data processing software with strong stability) including UI automation. I actively automate server management tasks dominantly in bash and Python. I have consistently resisted the false economy of not automating. With very few exceptions such resistance has been predicated on the false premise of no repetition foreseen. **My mantra:** When should you automate? When you can. You will not regret it.

Technical Writer

I have co-authored a few papers, written extensive technical documentation for and the English help systems for the payphone management systems REMAS III, and for the Hydroacoustic data processing software Echoview and managed delivery of same for the Data fusion software system Eonfusion. I have written extensive internal documentation on algorithms have also written extensive material in support of training courses, and published research on Suite 101 and publish on dev.to today, and may start up on substack some time. My preferred tools for mathematical documentation are LaTeX in the LibreWriter at present.

Software Trainer

I developed and delivered training courses for payphone management systems in English, German and French, and subsequently for hydroacoustic data processing software (Echoview). I have delivered training courses across the world and online and presented at numerous conferences and trade shows.

Software Project Manager

I brought Eonfusion project (a data fusion software product) to market, on budget, on time by implementing McConnell's 3-point estimation PERT variant training teams in its use and professionals to deliver off the cuff estimates comfortably, and useful for planning (the power of best, worst and most likely case estimation). I have completed numerous management courses (People in Projects, High Performance Communication, Practical Project Estimation, Project Management Advanced, CMMI-SE/SW for Senior Managers).

Career

2019 — 2024	Quality Assurance Engineer, Echoview Software Pty. Ltd.
2015 — 2019	Global Partner Manager, Echoview Software Pty. Ltd.
2015 —	Full Stack Developer, Self-driven side gig
2011 — 2015	Global Sales and Marketing Manager, Echoview Software Pty. Ltd.
2010 — 2011	Sales Support (Infrastructure and Asia/Pacific), Echoview Software Pty. Ltd.
2006 — 2010	Project Manager, Myriax Software Pty. Ltd.
2003 — 2010	Manager of Support, Quality Assurance and Documentation, SonarData Pty. Ltd.
2002 — 2003	Manager, User Support and Training, SonarData Pty. Ltd.
2002	Test Engineer, Dytech Solutions Pty. Ltd.
2000 — 2002	Software Engineer Larrisun Pty. Ltd.
1998 — 2000	Customer Support Engineer, Landis and Gyr Communications
2000 — 2001	Traveller Australia
1997 — 2010	Company Director, Larrisun Pty. Ltd.
1997	Technical Consultant, BHP Research
1995 — 1996	Telecommunications Engineer, Swiss Telecom PTT
1995 — 2003	Contributing Editor, Suite101.com
1993 — 1995	Traveller Asia and Europe
1992 — 1993	Research Engineer/Liaison Officer, BHP Sheet and Coil Products Division
1991 — 1992	Traveller Europe
1986 — 1991	Research Engineer, BHP Sheet and Coil Products Division
1983 — 1986	Mechanical Engineering Trainee, BHP Coated Products Division
1979 — 1980	Newspaper delivery, Northwest Star

Experience

Ongoing

Full stack developer, Self-driven side gig 2015-

Customers I served in sales were automating our software product (Echoview) with Matlab, Python and R. I set out to learn Matlab (by completing a Robotic Vision course at the QUT) and Python because I found Microsoft's TrueSkill algorithm implemented in Python and the Django web framework so whipped up a quick website to manage learderboards for our local games group. Running hand-me-down servers from my basement I was soon hosting numerous services focused not on the (in)famous LAMP stack (Linux, Apache, MySQL, PHP) but what I coined as the LLUPP stack (Linux, Lighttpd, Uwsgi, Python, PostgreSQL), behind an OpenWRT reverse-proxy. I have maintained a live and sandbox server since and run various services from them primarily on that stack but also doses of PHP thrown in so LLUPPP.

The SonarData/Myriax/Echoview years

Quality Assurance Engineer, Echoview Pty. Ltd. 2019-2024

Having revised all the sales processes, infrastructure, tools and built a solid reseller network empowered to demonstrate and quote independently, I yearned for more creative expression once more and negotiated a return to the development team into one of the least developed areas therein, Quality Assurance. In my tenure there I focused on:

1. **Automation:** Using Python to integrate with our existing infrastructure including integration with Microsoft Access, Subversion, Gitlab, Jenkins and UIA (to automate User Interface testing) and more.
2. **Rigour:** hand in hand with reducing manual steps to automated steps in test procedures much greater rigour (reduction in human error and human limitations)
3. **Data Science:** Complex (in both senses of the word) mathematical implementations like wide-band analyses (analysis of wide-band hydroacoustic data) were in my camp as well as binary data file analyses (echosounder data files supported by Echoview).

Manager of Support, Quality Assurance and Documentation, SonarData Pty. Ltd. 2003-2011

Managing the Support, Quality Assurance and Documentation (SQuAD) needs across three corporate divisions (Echoview, AQ1 and Eonfusion) with a team of up to 10 members.

The Telecommunications years

Customer Support Engineer, Landis and Gyr Communications 1998-2000

Technical and administrative support of customers for telecommunications software systems, including:

- product documentation (developing and maintaining user and installation guides),
- testing of payphones and the management system.
- product packaging and delivery (personalised for large corporate clients),
- customer training (designed and delivered 2 to 4 day courses to 2 to 20 engineers at a time),
- post-sales consultation and warranty management (telephonically and on-site)

Two major products and a few minor products with around 30 active customers (national Telecoms in Europe, Asia, North Africa and Latin America). Delivered courses on site predominantly in English and German, occasionally in French, produced documentation in English.

On the Move

Test Engineer, Dytech Solutions Pty. Ltd. 2002

A two month contract with Dytech Solutions filling a necessary quality assurance role on two key products (LeX and Quest) in the company's history (both web based information services for the Australian government).

Education

Master of Engineering (IT&T), Flinders University of South Australia 1995-96

Bachelor of Engineering (Mechanical), Honours class II, University of Wollongong 1983-86

Higher School Certificate, Physics prize, Engadine High School 1981-82

Junior School Certificate, German prize, Mount Isa State High School 1978-80

Personal Details

Date of Birth: November 12, 1965

Place of Birth: Kempten, Bavaria, Germany.

Nationality: Australian, Swiss

Marital Status: Married (de facto) with three children (2003, 2013, 2017)

Context of This Document

This is a 3 sheet resumé, being a very targeted extract of key points relating to the role of Quality Assurance Manager.

It consists of extracts from a full Curriculum Vitae of 7 sheets, which is available for drill down or further details, should this targeted rendition pique further interest.

The complete Curriculum Vitae as well as other targeted extracts are all available at:

<https://bernd.wechner.info/Professional>

The full body of professional experience is also up to date at:

<https://www.linkedin.com/in/bernd-wechner/>

and:

<https://www.seek.com.au/profile/bernd-wechner-MSlCWNZM1M>

respectively, the two most important professional employment related sites in use today in Australia.