

JAN ENGELHARDT

GÖTTINGEN, GERMANY

jan.engelhardt@netitwork.net

(This document is for reference only, a long business card if you will. I am not looking for new positions as of 01/2016.)

Experience as independent consultant and in employment

NETitWork GmbH 2015–present

Founder & Owner, Lead Software Architect, Senior Linux Consultant

- Maintenance of the Zarafa Collaboration Platform

NETitWork Security Solutions GbR 2011–2015

Lead Software Architect, Senior Linux Consultant

- Creation of target-specific office applications for third parties (cross-platform involving Windows)
- Distribution-level software packaging and assembly of entire stacks for Linux-based appliances

Mathematical Institute, University of Göttingen 2010–2012

Lead Systems Integrator for core server and HPC systems

- Maintenance of Linux–openSolaris server infrastructure involving virtualization and HPC.
- Packaging and distribution of field-relevant software for ease of cluster-wide deployment.

SalesTV GmbH 2009–2011

Lead Software Architect

- Development and maintenance of software stacks for Point Of Sale kiosks and Digital Video Signage systems. Design of a video distribution method and selection of appropriate encodings for low-power decoder hardware.

Leet Datasystem AS, Norway

Network Integrator, Web editor

- Platform provider for hosting customer webpages and CMS, and page editor of the same.

ApexHosting Ltd., United Kingdom

Network Security Officer

- Setup and support of iptables-based firewall filters. General network security and host integrity assessment consultation.

CC Computer Consultants GmbH

Systems Architect

- Assembly of the “TelCube” VoIP Appliance Unit's software stack

Gesellschaft für Wissenschaftliche Datenverarbeitung mbH Göttingen

Software Engineer

- Development of the “Instant-Grid” Linux live distribution to boot an autoconfiguring minicluster from CD.
- Interfacing with, monitoring and visualization of environmental parameters of cluster systems.

Max Planck Institute for Solar System Research, Germany

- Enhancement of in-house Fortran software by cluster capabilities using the Message Passing Interface API.

Topalis AG

- Migrations to Linux: Setup of redundant DRBD-backed MySQL instances with active-active failover using Pacemaker/Corosync.

Google Inc., New York City, USA

Software Engineering internship

- In-house system security and virtualization: Analysis of containerization methods and their performance for (what later became) Google Compute Engine.

Voluntary involvements

2001–2007: Providing systems administration of Windows–Linux heterogenous network infrastructures and technical user support at local colleges.

2012–: Member of the non-profit Kompetenzkreis Internet e. V., promoting the use of free (libre) software in the educational sector, and providing consultation.

2013–: Geo surveying and data acquisition for OpenStreetMap

Education

- 2010–2011: a supplement of Practical Spoken Languages at Göttingen University
- 2006–2009: Tertiary Education at Göttingen University in Geographic Information Science and Cartography, and Computer Science.
- until 2006: Secondary Education at Otto-Hahn-Gymnasium Göttingen, completed with Abitur/BAC in Computer Science, Geography, Chemistry.

Feats

- Spoken languages: German, English, Japanese, Norwegian, Swedish.
- Hardware experience from 386 to the modern PC, SUN SPARC, PPC, RaspberryPi.
- Kernel programming experience on Linux, Solaris and the top three BSD distro flavors; software building with and for Windows, Cygwin/MinGW.
- Development tools and kits: automake, Open Bulid Service, Git as a SCM, wxWidgets for GUI.
- Communications: IPv6, IPsec, Netlink ... (wrote parts of the packet filter in Linux)
- Programming languages: Assembler (cf. hardware), C, C++, Perl5, PHP, Python, Unix Shell.
- Experience in the field of storage with: glusterfs, drbd, ocs2; in geography: ArcGIS, JOSM.
- Notable free software involvement: Maintainer of Asterisk, x2go, Zarafa and the sparc64 port in the openSUSE Linux distribution.