Folkert J.J. van Heusden

Nationaliteit: NL

Rijbewijs: B

Telefoon:
06-41278122

Geboortedatum:
2 april 1974

e-Mail:
mail@vanheusden.com

LinkedIn:
https://www.linkedin.com/in/folkert-van-heusden/

Website:
www.vanheusden.com

GitHub:
https://github.com/folkertvanheusden/

Radio amateur:
N (PD9FVH)

Skills

Programmeertalen

Gevorderd:
C, C++, Python, assembly (z80, 8086, MC68000, PDP/11, MIPS, 6502)
Mee gewerkt:
Perl, Cobol, C#, HLASM, Java, Javascript, Pascal, PHP

Versiebeheer

GIT, SVN (Subversion), CVS, SCCS (Cadese), RCS, PVCS

Operating systems

Gevorderd:
Linux:
SuSE, RedHat Enterprise Linux/CentOS, Debian/Ubuntu
Mee gewerkt:
UNIX:
AIX, SUN Solaris, MP/RAS (NCR)
Overig: OS/2 Warp, Windows (95, NT, 2000, XP)

Netwerk protocollen

Geïmplementeerd:
IPv4, IPv6, ICMP, UDP, TCP, SCTP, DNS/MDNS, HTTP, SIP, AX.25, MQTT, PPP, SLIP, NTP, LLDP, NDP, ARP, NRPE, SNMP
Gebruikt:
ENUM, HTTP/2, SS7, SNA, X.25, Diameter

IDE's

QT, Microsoft Visual Studio, Keil, Eclipse, Arduino

Vrijwilligerswerk:

Filmhuis Gouda:
- bardiensten
- films draaien (operateur)
- bouwen website
- interne automatisering

CSVN (Computerschaak vereniging Nederland):
- bestuurslid
- onderhoud website

Werk ervaring

Broadforward, 2020-2021

Implementing new functionality, solving bugs, doing performance enhancements.

Working with protocols like SCTP/TCP/UDP, SS7, Diameter, DNS/ENUM, HTTP/2, SIP, etc – telecom oriented.

Primary programming language: C, operating system: Linux (Fedora / RedHat / CentOS), version control: git

BroadForward is leader in intelligent signaling software for 2G/3G, 4G/LTE, 5G, IMS, Fixed, Wi-Fi, IPX and M2M/IoT networks. BroadForward delivers core network products for routing, interworking, security and number portability, designed for convergence across legacy and next generation networks. BroadForward is a multiple GSMA Best Mobile Technology nominee.

Profound, 2018-2020

Developing and maintaining embedded applications as well as supporting applications for windows and linux. The targets were measurement devices.

Worked with: C, C++, Python, SVN, GIT, Keil, ARM, QT

Profound develops and manufactures pile testing equipment and geotechnical monitoring systems for professional use.

Cornerstone, 2016-2018

Working on migrations from one (programming) language to another.

Worked with: C, C++, COBOL, PL/1, HLASM, SVN

Cornerstone is providing services and software solutions for the analysis, documentation, quality measurement and automated modernization of legacy software and databases.

Zarafa, 2014-2016

Working on an open source groupware solution written in C++ and Python. Implementing new features, fixing bugs in existing code, packaging. Agile/scrum environment.

Worked with: Linux (Debian, Ubuntu, RedHat, SuSE), C++, Python, Javascript, MAPI, SMTP, iCAL, VCAL, HTTP, HTML, MIME, gdb, valgrind, Jira, Stash, SVN (Subversion), GIT, Coverity

Certificaten:

LPIC 1 en 2	2010
VMware VCP4	2010
AIX SystemP (223) administration	2009
AIX Support	2009
IBM Storage sales	2008
VMware VCP3	2008
SuSE Linux	2007
SUN Solaris 9	2006
ITIL	2005

Werk ervaring

MCOM (Scheidt & Bachmann) 2011-2014

Developing on an embedded Linux system (for topping up the balance of an OV-chipkaart as well as retrieving travel products) using C++, bash scripting and python. Creating tools in Java and C++ on microsoft windows.

Worked with: Linux (Debian, embedded), C++, Python , ISO 7816, ISO 14443 (Mifare) cards, OV-Chipkaart, SVN, GDB, Valgrind

BP Solutions, 2006 – 2011

Worked as a developer / devop.

Development of applications in C/C++, Java, PHP and Perl on Linux, AIX, Windows and a 8051 based embedded platform.

Administration, installation, configuration and monitoring of AIX/IBM SystemP systems with LPARs, Linux systems (SuSE & RedHat on Intel and SystemP).

Worked with: C/C++, Java, PHP, Perl, GDB, Valgrind, Linux (SuSE, RedHat, Debian), AIX, Nagios, IBM Director, Vmware

AMC (“Amsterdam UMC”), 2005 – 2006

Worked there as a “devop”.

Development of tools for monitoring of a large network consisting of Linux, Windows and proprietary systems.

Installation, configuration and maintenance of RedHat Linux and SUN Solaris systems.

Worked with: C/C++, Perl, PHP, Linux (RedHat), SUN Solaris 9, Nagios

Yacht, 2004

Worked as an assistant account manager. Matching people (all IT personel) and companies. Coordinated support team.

Rabobank, 2002-2004

Worked on software for ATMs. Adding new features, fixing bugs.

Worked with: C/C++, PVCS, Visual studio, Windows NT 4.0, Windows 2000, OS/2 Warp, Linux

Werk ervaring

CPS Europe, 2001

Developed a multi-threaded network stack for a chipcard terminal.

Worked with: C++, Linux, embedded systems

Nexus, 2001

Worked on a website (backend) in PHP on Linux. System administration of RedHat servers. Implemented an SMS gateway.

Worked with: C/C++, PHP, Linux (RedHat)

Rotting reisbureau, 2000

Performance analysis and optimalisation of a frontoffice application written in Java. Performance analysis of the SUN (9) operating system. The application ran under the Silverstream application server on a SUN UltraSparc system.

Worked with: Java, Silverstream SUN OS 9

Getronics, 1999

Worked on the middle-layer software of ABN-Amro. Adding new features, fixing bugs. Third line support on SNA networking issues.

Worked with: C/C++, PVCS, OS/2 Warp, Windows NT 4.0, alpha-version of Windows 2000

NCR, 1997-1998

Wrote datacommunication layers, Active X components and daemons for embedded (8051 processor) and Windows NT platforms in C, C++ and Visual Basic (interfacing proprietary protocols, TCP/IP and X.25). Also worked with and wrote software for handling chipcards. Designed and implemented monitoring system for point-of-sale terminal. System administration of Linux and NCR MP/RAS UNIX systems.

Worked with: C/C++, Visual Basic, Windows NT, SCCS/Cadese, ISO 7816, NCR MP/RAS, TCP/IP, X.25

De La Rue, 1997

Reverse engineered money sorter device, design and implementation of software to manage the money sorter.

Worked with: C++, Windows NT

Notable open source software projects

IPFixer	https://github.com/folkertvanheusden/ipfixer

This program receives IPFIX, NetFlow v9 and NetFlow v5 data and stores this in a database (MySQL, MongoDB, PostgreSQL or InfluxDB).

MyIP	https://github.com/folkertvanheusden/MyIP

This is an implementation of an IP-stack (IPv4/IPv6). It runs in userspace on Linux, is written in C++ and also has build-in servers for NTP, VNC, SIP (VOIP), MQTT, HTTP and others.

Chess and baduk programs	https://vanheusden.com/chess/

I have designed and implemented a few chess programs. Chess programs are programs that you can, like a human, play chess against.

I've also written Go (Baduk), Ataxx and Stratego "artificial intelligent" software.

Emulators	https://vanheusden.com/emulation/

I have written software that "emulates" all kinds of computer systems (this allows you to e.g. run Commodore 64 software on a Apple Mac): C64, PDP/11, MSX, SGI/Indy, PC/XT are such systems that I emulate.