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About me: I am a professional IT Consultant with over twenty years of experience in large scale high-availability 24/7 operational environments, in configuration management and its tools and their administration, IT process automation and process modelling of job scheduling workflows, software development (waterfall and object oriented), information security, automated administration and use of relational databases.

● WORK EXPERIENCE

12/07/2017 – CURRENT

CONFIGURATION MANAGEMENT SERVICE FOR COPERNICUS OPERATIONS

- Review and complement the applicable Configuration Management Plans, processes and working practices, workflows and interfaces between all related Change Control Boards and Anomaly Review Boards
- Regularly review and propose improvements on CM Plans and related documents, ensure they are properly applied by all relevant stakeholders
- Deliver support to a wide range of users and give training on applicable Copernicus Programme Configuration Management procedures
- Support the identification of the configuration items (software, hardware, documents, licenses) to be managed during Copernicus operations and build-up operations activities. Register configuration items in the CM and DM databases as appropriate, tracking any new version
- Daily usage of the Configuration Management Tool "Generic Dimensions Framework" (GDF), a customisation of the commercial off-the-shelf (COTS) tool "Micro Focus Dimensions CM" developed by the "Serena" company
- Work on quality and security concepts by enhanced reporting, reducing differences between baselines and the physical/actual configuration
- Continuously support the administration of the Anomaly and Change Control Boards regularly organised to review and approve anomaly correction and changes to configuration baselines, covering all Copernicus associated operations and ramp-up operations activities
- Support the organisation of joint Change Control Boards with external partners
- Involved in both "as built" and "as designed" CM processes
- Creation of metrics reports and key performance indicators
- Setup and maintenance of the Sentinel 3 software and hardware configuration baseline
- Support the control of all changes impacting identified configuration items through all defined life-cycle stages
- Keep up to date the mapping between changes (including anomalies) and software, hardware and document items
- Contribute to the improvements of the EUMETSAT CM and DM tools, ensuring they efficiently support all required Copernicus operations and ramp-up operations phases
- Regularly perform consistency and accuracy checks on the Documentation and Configuration Management databases, and resolve any inconsistency
- Timely prepare and present Configuration Status Accounting Reports, as necessary
- Test new EUMETSAT CM tool releases and document test results
- Work with Oracle SQL Developer 4.0.3 for running SQL queries against the GDF database,
- Atlassian Jira for task tracking,
- Skype for Business (Lync) and Cisco WebEx Meetings 39.1.5.3 to run teleconferences with ESRIN in Italy,
- Atlassian Confluence team collaboration software for editing the current joint salient points document
- Visio 2016, Microsoft Office, gimp for developing diagrams
- Microsoft Visual Studio 2010 for tool programming in Visual Basic
- various open source or Linux related software like MobaXterm Personal 10.4 / cygwin for Linux-like command line environment, PortableApps.com Platform 16.0.1 for additional applications like gVim Editor, VirtuaWin and many more

Darmstadt, Germany

01/06/2012 – 31/05/2017

EXTERNAL CONSULTANT, MULTI MISSION SOFTWARE LIBRARIAN WITH EUMETSAT

- Development and maintenance of the as-built software build environments
- Build, development, installation of software packages, releases and patches in various formats, environments and operating systems (RedHat .rpm, Solaris packages .pkg, Debian .deb, IBM AIX LPP)
- Development and maintenance of scripts that create nightly reports about software packages installed on computer systems in various environments; forwarding of the data to the Configuration Management Team
- Usage of software versioning and revision control systems like svn, git, cvs
- Usage of software build environments and tools (like Apache Ant, autoconf/automake, make, Jenkins)
- Administration and user support related to above-mentioned services and tools, for IDEs like Eclipse (svn plug-ins) and GUIs for software versioning tools like Tortoise svn
- Identification of necessary security patches and planning/performing appropriate updates

- Implementation of security controls on various levels (process related, technology related, result related)
- Installation, configuration and testing of externally developed software
- Investigation into security audit results created with the Qualys scanner
- UNIX/Linux System Administration
- Usage of scripting languages such as bash, ksh, csh, Perl, Python in order to automate processes and administration tasks
- Working with Virtualization and Container technologies (VMware, Docker); creating Docker images for quick and reproducible setup of build environments
- Administration and usage of the configuration management tool CFEngine; usage of Jira and Ansible
- Coordinate, schedule and perform maintenance and upgrade activities for the operational computer systems infrastructure with respect to Operating Systems (OS), Customer Furnished Items (CFI) and Commercial-Off-The-Shelf (COTS) software including setup and configuration
- Investigation into anomalies, their documentation and classification; follow up of the delivery of S/W corrections; usage of tools like Serena Dimensions and Eumetsat's APT tool
- Performing unattended, centralized software installations (PXE/TFTP, IBM AIX NIM, SuSE AutoYast, RedHat kickstart)
- Participation in technical meetings and formal reviews
- Development and update of maintenance procedures
- Design and implementation of a disaster recovery framework for Eumetsat's key products and services (KPS) to have a standardised high level process for re-establishing computer services after a major incident. This framework is in use at the organisation, with repeated training exercises as part of a so-called PDCA cycle (Plan-Do-Check-Act)
- Development and implementation of so-called "Special Installation Instructions" (SII), a checklist for the software librarian to accompany each type of installation in order to streamline installation processes, providing identical results independent of the person executing them, which increases predictability, quality and security (comparable to an SLA on low level tasks)

Darmstadt, Germany

01/06/2008 – 31/05/2012

UNIX SYSTEM SOFTWARE ENGINEER & MULTI MISSION SOFTWARE LIBRARIAN WITH EUMETSAT

- Design and Implementation of a Business Continuity / Disaster Recovery Management System and Framework, including asset analysis and test/training/exercise programme
- Shell Scripting (sh, ksh, bash, bsh, csh, zsh) and Perl, sed, awk scripting
- Development of application software to automatically list all activated software items within a heterogeneous computer environment and deliver the results via email
- Change Management, Software Build Management and Tools (Serena Dimensions, IBM LPPs, SUN packages, Linux rpms with spec files, make, imake, ant, build.xml etc.), Software Installation and Rollout
- Maintenance of source code control systems like cvs and subversion with their repositories
- Shaping of software build environments according to business continuity demands
- Unix administration and its automation
- Installation, maintenance, administration of the IBM AIX 5.1, 5.3 and 6.1 operating system (as well as Linux, Sun, MS Windows) and configuration of virtualised system environments
- Development of software to remotely and securely check, mount and umount a software-encrypted USB device for securely telecommanding a spacecraft

Darmstadt, Germany

01/06/2005 – 31/05/2008

UNIX SYSTEM SOFTWARE ENGINEER WITH EUMETSAT

- Shell Scripting (sh, ksh, bash, bsh, csh, zsh) and Perl, sed, awk scripting
- Change Management, Software Build Management and Tools (Serena Dimensions, rpms, spec files, IBM and SUN packages, make, imake, ant, build.xml etc.), Software Installation and Rollout
- Maintenance of source code control systems like cvs and subversion with their repositories Unix administration and its automation
- Installation, maintenance, administration of the IBM AIX operating system Version 5.1 and 6.1 for approximately 300 nodes in all segments of the EPS ground station; administration of SuSE Linux Enterprise 9, SUN Solaris 10 and Windows 2000 / XP systems
- Configuration of virtualised system environments, virtualisation
- Automation of Unix administration tasks, scripting of failover solutions
- On call 24/7 for one to two weeks per month
- Design and development of scripts for process automation and maintenance of the system environment, also for the fail-over mechanism of EPS IBM AIX clusters and their filesystems used
- Processing of change requests using Serena Dimensions management software
- Planning, setup, monitoring of backups using Tivoli Storage Manager (TSM 5.3) and Veritas Netbackup (Eumetsat TCE)

01/03/2000 – 30/06/2005

SENIOR IT CONSULTANT WITH ALLIANZ / DRESDNER INFORMATIONSSYSTEME GMBH

Job Scheduling, scripting/programming, administration as follows:

- Systems management software suite IBM Tivoli Workload Scheduler (TWS): design and implementation of the scheduling workflow (Unix / Windows / IBM Host)
- TWS 7/24 telephone support for operations with remote access to the customer's network
- IBM Tivoli software distribution: automatic distribution of new software releases and -patches to the clients within the Unix network (shell scripts with Tivoli commands and a Tivoli desktop, developed with Tivoli Task Library Language TLL)
- IBM Tivoli Monitoring and Tivoli Enterprise Console: monitoring of the TWS network, development of an interface to the Tivoli tecad process (Tivoli Enterprise Console Adapter) from the enterprise console.
- Automating the setup of an Oracle table structure, automation of filling the table structure with data, development of scripts integrating SQL commands that are sent to an Oracle database
- Development of a client server application in Java (communication system/chat)
- IBM Tivoli Storage Manager (TSM, former ADSM): integration of TSM backup tasks in TWS, autom. backup of TWS data with TSM, restore using TSM
- Development of scripts, programs, modules (Perl, ksh, bash, sed/awk) in order to automate and simplify workflows and administration processes
- Design and development of a software distribution process and application (integrating Tivoli Software Distribution) and subsequent automatic Tivoli Workload Scheduler configuration of the target nodes / clients, allowing to add new TWS Clients by simply starting a script
- Enhancement of the functionality of the IBM product TWS, e.g. by developing an exitcode daemon (Perl/Shell), which affects the flow control of processes depending on the exit code of a predecessor.
- Development of a complex language parser using lex/yacc (C/C++), to transform the ASCII coded TWS object definition language in csv files to be imported by databases like Sybase and mysql. This made it possible to automate filling a database with the daily updates of all object changes and job executions for reporting to the management.
- Development of an interface for an Intranet data warehouse to collect system information / software releases etc. with cyclic transfer into the data warehouse.
- Automatic reporting for the management: automatic generation of an excel sheet (Visual Basic / Windows Scripting Host (WSH)) with daily generated metadata from the UNIX systems
- Development of tools for the operations branch using the Tivoli Task Library Language (TLL) as interface
- Intranet: development of an Intranet site for the adjoining department of the customer (HTML, XML, php, JavaScript)
- Administration of Apache server, Tomcat server, Cocoon- Development of Cocoon applications for the Intranet using XML and Java (as well as Java Server Pages, JSP)- Development of XML pages for a customer-proprietary Intranet data warehouse with XML, XSL, LAMPP (Linux, Apache, mysql, php, Perl), Tomcat, Cocoon

01/05/1999 – 01/06/2018

MANAGING DIRECTOR OF SOLUVISION IT CONSULTING GMBH

- Foundation of the company, managing director
- Company administration, external representation
- Management of employees and two freelancers
- Development of the Internet website, programming in HTML, CGI; setup of Content Management Systems (CMSes) / web portals like Xoops, Mambo, Joomla etc. as well as an eCommerce system

(Webshop: Zen Cart)

- Activities as webspace- and domain provider, administration of a root server in the internet with more than 100 domains, Apache2- and mysql administration
- Perl programming, shell scripting, SSL libraries for automating intraday stock broking
- Design and setup of a 1km Cat.6 TCP/IP company network (structured cabling, distributed over three floors) with two subnets, two firewalls and managed routers
- Integration of a telephone system and VOIP, Least Cost Routing dependent on source (telephone, fax, ...) and target telephone number
- Setup and configuration of a demilitarized zone (DMZ) with webserver / cameraserver and five cash desk certified IP network cameras for automatic object surveillance with motion detection in predefined picture areas, detection of temperature changes (infrared) and alarm message over telephone line as well as automatic picture transmission to an external server- Setup of Linux firewalls (iptables) and VPN firewalls in a box for customers- Administration of the company's computer network (3 IBM RS/6000 AIX, 3 SUN Solaris, 5 Knoppix Linux PCs, 1 DEC VAX, 1 MS Windows, 1 DEC VT and 1 Neoware Thin Client)

01/07/1997 – 28/02/2000

IT CONSULTANT WITH DRESDNER BANK AG

- Design and development of shell-, sed-, awk-, Perl- and Tcl/Tk scripts under UNIX (AIX, SUN Solaris and Linux) with Tivoli Framework- and Corba components for the process control of a Data Warehouse under Tivoli TME 10
- Development of TLL libraries, tasks and jobs for implementation into Tivoli; usage of the Tivoli desktop for monitoring jobs and for manually restarting aborted transformations
- Development of software for an automated installation of new software releases into the Tivoli database. Transformation of commercial transactions for the trading applications Devon, Murex, Bloomberg, Kondor+, Stars etc. (investment banking area)
- Development of an event server (together with a colleague) for a process control that includes all process dependencies (Orbix/Iona / CORBA, C++)
- Maintain documentation and statistics in the Intranet using MS Word, AOL Press, Perl and CGI techniques
- Programming of SQL and HTML components for querying Informix and Sybase databases, evaluation and presentation of the results; SNIFF+ configuration management administration and UNIX support
- Development of Java programs and GUIs (Swing) for existing package building procedures (software deliveries) - Support for presenting process flows using IBO (and IRIS for presentation in the intranet)
- Usage of Tivoli / Maestro 5.1 for professional process control; Team SEU (software development environment)

01/01/1997 – 30/06/1997

IT CONSULTANT WITH DEUTSCHE BANK AG

- Application support banking- and investment banking software
- Development of UNIX scripts for automating system and database monitoring
- Daily work with UNIX systems, HACMP Clusters and Oracle databases
- Setup of a knowledge database in the intranet covering frequent support problems

01/03/1996 – 31/12/1996

IT CONSULTANT WITH DEUTSCHE BANK AG

- Second Level IT Support for complete Europe in the area of trading / banking, Investment Banking Systems
- Troubleshooting, support service for questions concerning UNIX workstations, applications, operating systems and the heterogeneous workstation and mainframe environment

07/1993 – 09/1994

QUALITY ASSURANCE CON-NECT – Software AG

- Quality Assurance for a large office communication system called CON-NECT
- Development of test plans and test case descriptions
- Complete automation of test runs using modern test tools
- Programming in Natural and on various operating system platforms
- Presentation of Tests and Tools
- MS Windows, Unix, Mainframe, VAX/VMS

● EDUCATION AND TRAINING

03/04/2017 – 04/04/2017 – Frankfurt, Germany

COBIT 5 FOUNDATION CERTIFICATION – Maxpert GmbH

08/03/2017 – 10/03/2017 – Frankfurt, Germany

ITIL 2011 CERTIFICATION – Maxpert GmbH

2014 – 2017

MASTERY IN LEADERSHIP

- five plus one seminars on leadership spread over three years with one main topic each
- definition of what is really important in leadership
- being authentic, clear and precise in presentations and coaching
- methods of communication and cooperation in groups and teams
- leading seminars, teamwork practices, negotiation
- feedback strategies

02/2014 – 07/2015 – Sinzheim / Baden-Baden, Germany

TRAINING (26 DAYS): LEADERSHIP AND PERSONAL COMPETENCE – Neue Wege Seminare

- Various types of presentation, consulting, coaching under consideration of group dynamics and the target audience; free-style presentation without supporting media or paper; ad hoc presentation without preparation
- Raising awareness for customer expectations
- Authentic, precise and direct communication
- Flexibility in problematic situations, negotiation techniques, giving feedback
- Methods of communication and cooperation in groups and teams
- Self-awareness and reduction of negative thought patterns

EQF level 5

11/2012 – 11/2012 – Sinzheim / Baden-Baden, Germany

COMMUNICATION TRAINING "CHARISMA" – Neue Wege Seminare

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- 5 days of presentation training
- Communication training and self-awareness, authenticity

EQF level 4

08/2012 – London, United Kingdom

MASTER OF SCIENCE (INFORMATION SECURITY) – Royal Holloway, University of London

- Security Management, Business Continuity, Disaster Recovery
- Introduction to cryptography and security mechanisms
- Computer Security
- Network Security
- Advanced Cryptography
- Smart Cards / token security and applications
- Thesis about the development of an IT-focused disaster recovery framework and its integration into Eumetsat's Information Security Architecture

EQF level 7

17/05/2012 – 20/05/2012 – Sinzheim, Baden-Baden, Germany

COMMUNICATION TRAINING "INITIATIVE" – Neue Wege Seminare

- 40 hours of communication training: methods of communication and cooperation, awareness and feedback strategies

EQF level 3

12/07/2010 – 16/07/2010 – Wiesbaden, Germany

IBM AIX TRAINING: LPAR41 - LPAR VIRTUALIZATION FROM A TO Z – explico Software GmbH

- one week training: IBM AIX LPAR virtualization

EQF level 4

21/08/2009

IBM CERTIFIED SPECIALIST SYSTEM P ADMINISTRATION – IBM

- certification issued by IBM

EQF level 4

02/02/2009 – 06/02/2009 – München, Germany

IBM AIX VIRTUALIZATION WORKSHOP – explico Software GmbH

EQF level 4

26/03/2007 – 30/03/2007 – Wiesbaden, Germany

PYTHON PROGRAMMING – Lamarco EDV Training

01/02/2007 – 02/02/2007 – Wiesbaden, Germany

ADVANCED PERL PROGRAMMING – Lamarco EDV Training

2005 – Darmstadt, Germany

SOLARIS 10 NEW FEATURES

- One week training: new features of the Solaris 10 Operating System

EQF level 3

1999 – Darmstadt, Germany

JAVA PROGRAMMING AND ADVANCED JAVA PROGRAMMING

- Two weeks training of Java Programming and Advanced Java Programming

EQF level 4

10/1995 – Darmstadt, Germany

DIPLOM-INFORMATIKER (FH) – University of Applied Sciences Darmstadt

- degree to be translated with "Bachelor with Honours"

EQF level 6

1994 – Cork, Ireland

ONE TRIMESTER STUDY AT REGIONAL TECHNICAL COLLEGE CORK – Cork RTC

- Three months study in Ireland via Erasmus stipend, specialising in "The People Side of Project Management" and Data Communications / Unix Network Programming

EQF level 5

1987 – 1989 – Darmstadt, Germany

BANK CLERK, CERTIFIED BY DARMSTADT CHAMBER OF COMMERCE – Bayerische Hypotheken- und Wechsel-Bank AG

- Two year apprenticeship as a bank clerk / certified banker (usually three years, but reduced by one year due to university-entrance-diploma)

EQF level 6

● **LANGUAGE SKILLS**

Mother tongue(s): **GERMAN**

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
FRENCH	B1	B2	B1	B1	B2
SPANISH	A2	B2	A2	A2	A2
RUSSIAN	A2	A2	A2	A1	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● ORGANISATIONAL SKILLS

Organisational skills

- organisational skills gathered as founder and managing director of a limited liability company (GmbH), started in 1999, as well as during over twenty years of consultancy for international customers
- structuring and modularising tasks ("divide and conquer")
- prioritising workload
- applying strategies against procrastination within projects
- project planning and reporting

● COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

- calm and reasonable under pressure and in critical situations
- friendly and cooperative in the team, absolute discretion outside work
- successfully completed several communication training seminars

● JOB-RELATED SKILLS

Job-related skills

- very high experience concerning work habits in highly sensitive projects (trading, banking, satellite ground stations)
- especially suited for technical work environments with a very low human-error tolerance due to well-considered actions and the experience in the above-mentioned projects

● LETTERS OF RECOMMENDATION

Letters of Recommendation

2004

by Mr. Volker Binder, Allianz Dresdner Informationssysteme GmbH

1995

by Mr. Frank Müller-Pirker, Deutsche Lufthansa AG

1995

by Software AG, Darmstadt

1994

by Fachhochschule Darmstadt

1992

by Gesellschaft für Mathematik und Datenverarbeitung mbH