Michael Dennis Jagdis

BSc (Hon)

PERSONAL DETAILS

Address	9 Lancaster Gardens, Earley, Reading, England RG6 7PA	
Email	Mike Jagdis Mike Jagdis	<pre>{mjagdis@eris-associates.co.uk} {mjagdis@gmail.com} (formerly (jaggy@purplet.demon.co.uk))</pre>
Online	LinkedIn GitHub SourceForge	https://www.linkedin.com/in/mikejagdis https://github.com/mjagdis https://sf.net/u/jaggy
Telephone	Voice (Mobile	e/Cell) +44 7780 608 368

PRIMARY SKILLS

UNIX / Linux	25+ years System administration on a wide variety of UNIX flavours (BSD, Linux - Redhat and SuSE, Solaris). Specification, configuration, installation and administration of systems, from desktops to multiprocessor servers with RAID storage subsystems, large-scale clusters of servers, clouds (AWS and GCP) and compute farms (10,000+ servers).
Storage	20+ years Specification, configuration, installation and administration of systems, including servers with internal RAID arrays, external RAID subsystems and SAN/NAS devices such as NetApp utilizing Samba/CIFS, NFS, iSCSI and OpenAFS.
Java, C / C++, Assembler	30+ years Mainly in UNIX and Linux environments, some Windows. Applications, databases, network and system programming. Kernel and device driver development. x86, RTOS, microcontrollers, ARM, ESP, STM8, 680x0, 6809, 6502, Z80
Script/Interpreted Languages	30+ years Including, but not limited to, Bash/sh, JavaScript, Lua, Perl, PHP, Python, Tcl/Tk
Network	30+ years Specification, design and installation of networks: physical cabling, switches, firewalls, IPsec (strongSwan, Openswan), web (Apache) and email (Dovecot, Postfix).

Database	 25+ years Design and administration of databases: Informix (Standard Engine and Dynamic Server), MySQL, Oracle and PostgreSQL. Programming with SQL, Informix 4GL (original, Dynamic 4GL/4JS, QueriX), Perl DBI.
Web	25+ years Administration scripts, Apache configuration and module coding, cache configuration, web design using HTML/CSS, JavaScript, XML, Perl + PostgreSQL/MySQL.

CAREER HISTORY

Mar 2023 to present	Owner & Managing Director Eris Associates Ltd., 9 Lancaster Gardens, Reading, England RG6 7PA		
	General consulting and contracting.		
	• Development of the openHAB binding for WundaSmart smart heating systems.		
Oct 2015 to Mar 2023	Executive Director / Senior Engineer Goldman Sachs International, Plumtree Court, 25 Shoe Lane, London EC4A 4AU		
	• Moved from contract to permanent, expanding on projects and responsibilities that previously fell under the aegis of Eris Associates (below).		
	• Working with Risk to improve cryptography standards, modernise infrastructure and evaluate impact of bugs.		
	• Designed and implemented scripts to enable seamless storage migrations.		
	• Implemented support for NFS with Kerberos security.		
	• Working with Marcus (retail banking) to optimise resource usage, diagnose bottlenecks and maximise scalability.		
	• Working with Real Time to explain variability and outliers.		
	• Implemented features and extensions to the SaltStack configuration management system.		
	• Diagnosing and explaining performance issues and system behaviours, advising on possible improvements.		
Dec 2002 to Oct 2015	Owner & Menoring Director		
Dec 2002 to Oct 2015	Owner & Managing Director Eris Associates Ltd., 9 Lancaster Gardens, Reading, England RG6 7PA		
	• Providing technology and management consultancy in implementation and migration, systems and network design, administration, monitoring, automation and management with customers ranging from SMEs to multinational investment banks.		

	• Installations range from small office servers to clusters and compute farms consisting of many thousands of machines plus SAN/NAS systems such as NetApp and network file systems such as NFS, Samba/CIFS or OpenAFS.
	• Growing a compute farm from less than 200 hosts to over 10000 in half a dozen datacentres.
	• Design and implemention of a hands-off automated build system.
	• Design and implementation of a system for real-time system monitoring/alerting and statistics gathering/graphing to provide pro-active fault handling and performace tuning.
	• Integrating AFS into a software distribution system.
	• Live migration of multi-terabyte filesystems to new servers.
	• Design and implementation of dialplans for Asterisk and Callweaver VoIP/tel PBXs.
	Configuration management with CFEngine and SaltStack.
Jun 2001 to Dec 2002	Senior Software Engineer Inpharmatica Ltd., 60 Charlotte Street, London, England W1T 2NU
	• Member of cross-departmental group designing and implementing change management processes and tools: document/code repositories, release management and defect/change request tracking.
	• Design and implementation of bioinformatics algorithms and process pipelines for the analysis of terabyte scale databases of DNA and protein data, performance optimisation of existing applications and systems.
	• In-house training of research group in management processes, languages and coding strategies.
	• Configuration and administration of clusters of Linux and Sun machines using both a proprietary inhouse queuing system and the SunGridEngine system.
Jan 1999 to Jun 2001	Chief Network Architect / Senior Analyst Programmer Kokua Communications Ltd., 52-53 Conduit Street, London, England W1S 2YX
	• Development of scalable system architecture for two way Ka band Internet via satellite broadband communication. Responsibility for technical integrity of overall system design, creation of link budget and bandwidth analyses, selection and management of external suppliers/subcontractors.
	• Analysis, design and development of Linux based customer premises equipment. Includes TCP performance enhancements, traffic queueing strategies (CBQ, SFQ, RED, etc.), firewalling, multicasting, SNMP agent extensions, statistics gathering, file/printer serving, web caching, web serving, web page design, and more.
	• Design and implementation of a test bed to simulate the packet delay and loss characteristics of geostationary satellite links.

Jan 1991 to Jan 1999	Consultant / Project Manager / Systems & Network Engineer / Analyst Programmer Roan Technology Ltd., 2 Markham Mews, Broad Street, Wokingham, England RG40 1AB		
	• Development of a suite of menu, security and resource management programs and libraries, originally in Unique Concept 4GL and converted to Informix 4GL / QueriX, ESQL and C.		
	• Development of a solicitor's case processing and accounting system in Informix 4GL / QueriX, ESQL and C for a large firm of solicitors with offices throughout the UK. Responsibility for the underlying system libraries and networking requirements between the offices and to the Internet using Linux, 3Com and Cisco routers in a multiprotocol environment (TCP/IP, PPP, UUCP, NetWare/IPX).		
	• Design and implementation of a Linux based fax-to-desk/email solution.		
Jan 1990 to Jan 1991	Project Manager / Analyst Programmer Inta Electronics Ltd., Wokingham, England		
	• Development of an integrated business system, comprising accounting, stock control, factory planning, CAD, word processing and email systems for a Dutch manufacturer of heavy plant machinery. This included specification and design through to training of both technical staff and end users, involving much on site work in the Netherlands plus support via telephone and modem.		
Sep 1988 to Dec 1989	Software Engineer Tetra Business Systems Ltd., Maidenhead, England		
	• Responsibilities included the development and maintenance of Tetra's main products, Tetraplan, Tetra 2000 and Chameleon, and the initiation of project management procedures for future work.		

EDUCATION

1988	BSc (Honours) Computer Science, Reading University, England
to 1985	4 'A' Levels, 1 'AO' Level, 10 'O' Levels

OPEN SOURCE CONTRIBUTIONS

Examples and current work available at http://git.eris-associates.co.uk/

2020 onwards

Created RFGate, an ESP8266 based gateway for 433 MHz IoT devices, along with a binding for the openHAB smart home automation system.

2018 onwards	Fixes and enhancements to the MCU emulator included as part of SDCC - a multi-target compiler/emulator for small devices.
2018	Contributed a decoder for the SWIM protocol used to debug and flash STMicroelectonics microcontrollers to the sigrok signal analysis suite (and the fork used by DreamSourceLab for the DSLogic).
2017 onwards	Contributed fixes and enhancements to the openHAB smart home automation system. Contributions include enhancements to the binding for the 433MHz transceivers made by RFXCOM, refactoring the RFXCOM binding resulting in a substantial reduction in code size, and authoring a new binding for the OSRAM Smart+/Lightify Zigbee gateway.
2007 to 2010	One of the core developers of Callweaver, a cross-platform software PBX system forked from Asterisk that supports analogue and digital PSTN telephony, multi-protocol voice over IP (VoIP) telephony, fax (hardware, software, T.38 fax over IP) and is fully programmable for telephony applications such as IVR, conferencing, call centres, etc.
2001 to 2003	Member of, and contributor to, the SunGridEngine project.
1999 to 2003	Primary developer of Diald, an intelligent control and management daemon for on-demand network links.
1993 to 2001	Developed the iBCS module for Linux which implements kernel-side "personalities" that allow SVR3 (SCO, ISC, Wyse V/386, etc.), SVR4 (UnixWare, Dell), 386 BSD (BSDI, 386bsd, FreeBSD, NetBSD), Xenix 386 and Xenix 286 applications to be run transparently under Linux.
1992 onwards	Contributed numerous fixes and enhancements to the Linux kernel, system programs and applications, including Cyrix/AMD processor specific support, device drivers, virtual memory and networking/ISDN.