

Personal Details

Full Name	Adam Peter Burns
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Professional Experience

2024: Prototype Fund Project - sigOnamect!

[sigOnamect!](#) is a self-sovereign infrastructure software project designed to bring secure decentralised autonomy to the DNS system, allowing end users to directly search and publish new services & resources. Development included:

- a common library and standalone dynamic DNS tool in Golang.
- a Dynamic DNSSEC server configuration in ansible.
- local-first, standards-based browser applications developed with Javascript & WebAssembly.

2020 - : Technology Thinker & Doer, Dyne.org Foundation

Dyne.org is a non-profit open source software foundry

Hands-on Technical R&D Lead for the [INTERFACER project](#), developing decentralised software tools to promote cooperation & collaboration among Maker Spaces and Fab Labs.

- Represented technical work package partners to entire consortium (6 member organisations)
- Designed & presented FabCity OS technical features and detailed architecture in public events & webinars

Technology Mentor for LEDGER project participants and their blockchain projects.

Hands-on Technical R&D Lead for the [REFLOW project](#), developing decentralised software for urban circular economies.

- Represented technical work package partners to the REFLOW consortium (28 diverse organisations)
- Managed technical work package partners for Reflow OS development
- Led technical assistance & problem resolutions across Reflow OS use case implementations across pilot cities
- Presented Reflow OS technical features and detailed architecture in public events & webinars
- Authored and contributed to project deliverables, including:
 - D2.4 Design and Development of REST API Application and Pub/Sub Interfaces: authored core integration
 - D2.6 Multi-Platform Release of REFLOW OS for Cloud & Embedded Infrastructure: principle author
 - D7.5 Sustainability, IP, and Business Plans: drafted core technical IP exploitation & business plan

2019 - 2023: Chief Information Security Officer, MiCT, Berlin, Germany

Media in Co-operation and Transition is a NGO for media programs and journalist development and training.

- Implemented organisation-wide security focussed strategy plan.
- Led technical, procedural and cultural improvements in resilience and risk management.
- Delivered security awareness workshops including on site for Middle Eastern & North African Journalists.

2017 – 2018: CTO / Head of Adaptant Labs, Adaptant Solutions AG, Munich, Germany

Adaptant is an open source R&D company in the fields of cloud security, privacy and personal data sovereignty.

Key: Product Development & Research Management, Security Research, Consent & Regulatory Compliance, IoT, Connected Cars, Blockchains, Istio, OpenStack, OpenShift, Kubernetes, Docker, Microservices, TEE (SGX, TrustZone), Kantara Initiative, Certificate Transparency, XCAML

2015 – 2017: Lead Technology Consultant, MiCT, Berlin, Germany

Media in Co-operation and Transition (MiCT) is a Berlin based media development NGO.

- Responsible for open source embedded software system design and development of Pocket FM, an emergency embedded media broadcast system deployed in strife torn regions of Syria, Iraq, and Tunisia.

Key: Open Source Software & Hardware Development, Linux, Python, dbus,

[2014 – Present: Director, free2air limited London, UK / Berlin, Germany](#)

free2air limited is a provider of bespoke Internet and embedded open source security systems development.

- Developed IoT solution elements including WiFi & power-line routers & Bluetooth iBeacons.
- Delivered WiFi & Bluetooth site surveys, application and system security scanning and audit services.

Key: Project/Contract/Staff Management, Software Development, Security Policy/Procedure Development, Security Audits, Linux, OpenWRT, OpenEmbedded, Raspberry Pi, VoIP, Git, Ansible, Vagrant, SIP, Nagios, OpenVAS, Nessus, Kali

[2014 – 2016: Advisor to the Board, Brabbl, Berlin, Germany](#)

Brabbl provides web based public participation platforms for both public and private sectors.

- Key responsibility for information security standards, procedures, and training.
- Transformed agile environment ready for security audit in line with Board business requirements.

Key: Policy, Security Policies & Procedures, Operations & Incident Management

[2007 – 2013: Head of Security & Operations, Cellcrypt Limited, London, UK](#)

Cellcrypt is a provider of military-grade internet VoIP encryption on smartphones.

- Oversaw global IT operations staff, introducing process controls for development, operations & security.
- Transformed IT systems and processes for transition from a technology start-up to a global service provider.
- Initiated IT governance strategy incorporating security policies and disaster recovery plans.
- Led continuous improvement of development, change control, incident & change management processes.
- Security Cleared for defence/intelligence organisation consultations in several countries.

Key: Operations, Security, Staff & Project Management, Policy & Procedures, Consultancy, VoIP, MDM, Android, iOS, 3G, GSM, SIP, VPN, PKI, Nagios, Cacti, OpenVAS, Nessus

[2006 – 2007: Network Consultant, The Cloud, London, UK](#)

The Cloud was the largest provider of public WiFi in Europe.

- Led architecture of secure enterprise managed access service to corporate networks.
- Introduced business change strategies to transition to a service-driven operation.
- Implemented security processes for incident, configuration and change management.

Key: System Architecture, Security Policy & Procedures, Linux, Apache, MySQL, PHP, Cisco routers & WiFi controllers & Access Points, Nagios, IPsec, 802.1x, RADIUS, SNMP, Java, Bash, Python.

[2004 – 2006: Sessional Lecturer, Ravensbourne College, London, UK](#)

Lecturer for Networked Media Environment MA course, leading the Intelligent Media course.

- Coursework topics included mesh networking, P2P protocols, IDS, and network surveillance techniques.
- Introduced students to data visualisation and analysis tools & legal, social, and political aspects of their use.

[2000 – 2003: AVP Services Engineering, GNS, Credit Suisse, London, UK](#)

Services Engineering, Global Network Services (GNS) is responsible for the secure design and deployment of all Credit Suisse external data connections world-wide.

- Senior member of security engineering team responsible for all global external services.
- Designed pilot global secure remote access VPN service to scale for over 10,000 staff.
- Acted as interim head of GNS Services Engineering.

Key: BSD, Linux, Windows, Reuters & Bloomberg feeds, FX links, B2B links, Nokia Checkpoint firewalls, Cisco routers, Aprisma Spectrum, Niksun, NetCool, IPsec, RSA SecureID, IPsec, BGP, OSPF, VRRP

[1998 – 1999: Security Consultant, Department of Justice, Victoria, Australia](#)

The Department of Justice is responsible for personal information management across all Courts, Sheriffs, and public and private prisons within the state of Victoria.

- Chaired IS Security Reference Group with Ministerial representation and key senior stakeholders.
- Authored Departmental Information Security Policy conforming to AS4444 & AS4360 (ISO17799 / ISO27000).
- Drafted authentication and encryption strategies and implemented SIEM system.

[1997 – 1998: Senior Consultant, Distributed Systems Technology Centre, Australia](#)

The Distributed Systems Technology Centre (DSTC) conducts open source applied research in areas including government, defence and health care.

[1992 – 1996: Technical Manager, Pegasus Networks, Australia](#)

Pegasus Networks was Australia's first national ISP and member of the Association of Progressive Communications (APC), assisting online NGO networks in environmental, peace, womens and human rights movements.

- Member of management team with responsibility for all Internet services and network infrastructure.

- Development and maintenance of hubs for APC conference feeds and international email links in the Asia Pacific (including East Timor, Malaysia, Indonesia, and the Philippines).
- Acted as information security officer for liaison with AusCERT, Australian Federal Police & the APC.

Education

Bachelor of Science (Mathematics), Monash University, Melbourne, Australia
High School Certificate, Melbourne Church of England Grammar School

Associations

2019- : United Nations IGF DC3

Member of United Nations Internet Governance Forum Dynamic Coalition for Community Connectivity.

2018- : Founding member of MyData Global

MyData Global empowers individuals through their right to self-determination regarding personal data.

2015 – 2018: Advisory Board Member of netCommons EU

The netCommons project is an EU Horizon 2020 funded research project to foster the growth and sustainability of Community Networks, contributing to decentralised Internet initiatives.

2015 – 2017: Cryptoparty Organiser (c-base, Berlin)

Cryptoparties are open events to share knowledge to mitigate digital risks and strengthen secure practices.

2000 – Present: Founder, free2air

free2air is dedicated to open source local infrastructure and is Europe's first open public access wireless network.

1996 – 1999 Founding Member and Director of the Internet Society of Australia

Co-founded and initiated work groups in privacy, cryptography, censorship and DNS policy.

Media & Publications

2014: EU PACT Project

Participation in the EU PACT Research Project focussing on digital privacy and security in Europe.

2011: Investigation into grassroots initiated networked communities

Advisor to Dr. Mark Gaved's PhD research project *An investigation into grassroots initiated networked communities as a means of addressing the digital divide*.

2007: Steal This Film 2

Channel 4 documentary *Steal This Film 2* about the Internet & the right to share culture. Featured alongside Howard Rheingold, The Pirate Bay and many other Internet and media activists.

2005: Declaration of the Network Commons

World Summit for Free Information Infrastructures, London, UK. Opening speaker and session panellist.

2004: Legal Aspects of Open Public Networks

Co-author of a broad survey of open public networks. Burns, Adam. Simpson, Bruce, .nbco. (2004) *Legal Aspects of Open Public Networks*. Presented at The Law Society, Imperial College London, UK and NotCon 2004.

2004: Freie Netze: Geschichte, Politik und Kultur offener WLAN-Netze

Credited in the dedications and cited throughout. Medosch, Armin (2004). *Freie Netze: Geschichte, Politik und Kultur offener WLAN-Netze*. Hannover. Telepolis, Heise. ISBN 3-936931-10-0

2003: Free as in Air: An Interview with Vortex

Albert, Saul (2003). *Free as in Air: An Interview with Vortex*. In **SaraiREADER03** Shaping Technologies (pp. 337-345). Amsterdam/Delhi: Centre for the Study of Developing Societies. ISBN 81-901429-3-3

2002: Pico Peering Agreement

Co-author of the *PicoPeering Agreement* used by open wireless networks world-wide, including Freifunk Germany.