

Aaron Ardiri

Technical Leader and IoT Specialist

Contact

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Objective

Seeking a technical leadership / advisory position with an enterprise and IoT focus.

Technical Leadership

Architecture

Internet of Things

Team Building

Mobile Innovation

Solution Expert

Coaching & Mentorship

Project Management

MEAP / ERP

example roles: Chief Technology Officer / Technical Executive / Technical Director

Summary

A technical leader that has worked internationally with a wide variety of companies ranging from start-ups through to medium size enterprises and large fortune 500 / international organisations with a focus on enterprise, mobility and the Internet of Things.

- more than 20 years experience within the enterprise, mobile and IoT industry
- significant experience with agile development methodologies / leadership
- proven capabilities to architect, develop and deliver solutions from start to finish
- credible, public speaking and internationally recognised within the mobile industry
- passion for innovation and “defining the curve”, principal author of two patents
- internationally recognised within the field of Internet of Things (IoT), public speaker
- enthusiastic team player able to energise, motivate and humour team to achieve goals
- highly organised manager able to quickly assess and deal with challenges
- identified twice within the top 100 IT professionals of Sweden (2010, 2012)
- strong skills in marketing, analysis, negotiation, writing, communication and planning
- willingness to travel and/or relocate both internationally and domestically

Maintained a strong technical knowledge and understanding within the mobile industry by running an independent games studio as a hobby to keep in touch with the latest technological trends. Since 2013; entered early retirement and offering technical managerial services as a consultant within the field of IoT and public speaking at numerous conferences.

Availability

Aaron is currently working as a freelancer (open contracts, no specific term commitments) and runs his own company specifically within the field of security and Internet of Things and is open to in hour or remote opportunities on either full time, part time or contract basis.

Professional Experience

2017+

Chief Executive Officer

RloT Secure AB

RloT Secure is a technology provider within the IoT (Internet of Things) industry - providing a range of technologies from cryptographic technology optimised for low-powered resource constrained devices, network agnostic developer modules through to a complete device lifecycle management platform tailored specifically to the requirements of any IoT ecosystem.

A key member of the management team, founded the company inspired by many years of research and development with hands-on-experience with IoT projects in multiple fields around security within the Internet of Things ecosystem - a major concern for both the consumer and enterprise market, with over 75 billion devices expected to be online by 2025.

The platform is capable of providing a secure end-to-end communication channel while delivering firmware updates over-the-air for various families (avr, ARM, PIC et al) of resource constrained micro-controllers that have no or vendor-tied solutions for lifecycle management.

Single handedly developed a complete device lifecycle management middle-ware solution for resource constrained devices; with a FreeRTOS based C++ embedded client using an optimised protocol to exchange data between device and cloud interfacing with REST API's for resource management complete with a management console written in JavaScript ES5.

Active customers include SAS Ground Services (Sweden) and Comau Robotics (Italy) in both cases a custom industrialised PCB was designed providing the bridge between the platform and the customers own micro-controller and communications end-point in the cloud.

EMPLOYMENT DUTIES: Technical Leadership
Project Development Management
Principal Solution Architect
Research and Development
- Telematics Hardware Design (PCB)
- Embedded Firmware Development
- Cloud Solution with REST API

2015+

Founder

RloT International

RloT International is a technology enabler within the Internet of Things (IoT) industry - providing a full ranges of consultancy services covering technology management, hardware prototyping, software development and go-to-market product lifecycle expertise.

EMPLOYMENT DUTIES: Technical Leadership
Coaching and Mentorship
Project Management
Software and Hardware Prototyping

PREVIOUS EMPLOYMENT

2014-2015 Chief Technology Officer Evothings AB

Evothings is a mobile application enabler for the IoT industry helping developers and technology players in need of creating mobile applications and services interfacing with their technologies. Evothings is open source, enables the creation of efficient integration points and offers an easy-to-use mobile application development suite.

A key member of the senior management team with a strong community focus within the Internet of Things (IoT) field, identifying trends in the market, experimenting and hacking embedded technologies as they appear and manage a team of developers building a quick and easy to use IoT mobile device application prototype platform called Evothings Studio.

EMPLOYMENT DUTIES: Technical Leadership
Product Development Management
Concept Prototype Development

2012-2013 Principal Developer Evangelist BlackBerry

BlackBerry is a designer, manufacturer and marketer of wireless solutions for the worldwide mobile communications market providing devices and mobile device management services.

A key contributor to the developer relations' team with the launch of the BlackBerry 10 mobile platform – organising and presenting at a number of developer events in over forty countries within the EMEA region, leading a team of evangelists and quickly became recognised as the face of BlackBerry 10 within the development community.

EMPLOYMENT DUTIES: Event Organisation
Team Leadership and Mentoring
Technical Evangelism (BlackBerry 10) - EMEA

2010-2012 Technical Director, Enterprise VP of Development Research In Motion ubitexx GmbH

ubitexx GmbH developed and distributed over-the-air mobile device management and security solutions for enterprises with a cross platform focus in the German speaking market.

The principal architect of the Universal Device Server (UDS) component of the BlackBerry service engine – a cloud based cross-platform mobile device management (MDM) solution to complement the proprietary BlackBerry Enterprise Service (BES) integrating with third party solutions and technologies that was originally targeted for the BlackBerry device platform.

As a key member of the management team within ubitexx GmbH, was responsible for the technical due diligence of the platform resulting in the acquisition of the company by Research In Motion on 31.05.2011 with a two-year stay to ensure technical transition.

EMPLOYMENT DUTIES: Technical Leadership
Principal Solution Architect
Technical Due Diligence of ubitexx GmbH acquisition
Development Process Management (agile / SCRUM)

2008-2010 Chief Technology Officer

Appear Networks AB

Appear Networks AB is a leading provider of context-aware software infrastructure designed to power the next generation of mobile applications and services using situational information (context) to eliminate information overload and ensure mobile workforce end-users have the information they need, when and where they need it.

Provided technical leadership and vision to engineer the next generation of mobile enterprise application platform (MEAP) utilising context awareness to integrate into existing backend technical solutions to provide a revolutionary simple to use end-user platform for enterprise workers. Involved in a number of high profile European Union FP6/FP7/EUREKA projects (MIDAS, SIMS, CAMPUS) and SITA (a multinational technology provider in airline industry); providing project management and technical input during all phases from the project bid submission through to product delivery to the customer.

EMPLOYMENT DUTIES: Technical Leadership
Mobility Innovation Vision
Research and Development Manager
Product Owner (Scrum – Agile Methodologies)

2001-2008 Chief Technology Officer

MedHand International AB

MedHand International AB produced the Dr Companion™ product; a patented professional working tool for physicians and medical personnel available on mobile and desktop platforms.

Designed and implemented multiple iterations of a patented mobile medical publishing and distribution platform, with "over the air" synchronisation for content updates and a secure digital rights management (DRM) within a cross-platform environment that has been labeled as "way ahead of its time" existing prior to existing eBook. Included a deep technical role for securing content licensing from some of the worlds renowned providers of medical literature (Oxford University Press, McGraw Hill, Elsevier, Wiley and Sons, Wolters Kluwer) and various local content providers (United Kingdom and Sweden) to provide an "all-in-one" mobile medical reference solution for doctors both regionally and worldwide.

EMPLOYMENT DUTIES: Technical Leadership
Principal System Architect
Publishing and Content License Acquisition
Development and Innovation Manager

1999-2021 self-employed (hobby)

Known for "making the impossible, possible" recognised as a serious low-level developer, for reverse engineering and writing system hacks on a variety of mobile platforms. Pioneered and created the SHARK development kit - a cross-platform development environment utilizing a single source code base using abstraction across devices.

EMPLOYMENT DUTIES: Mobile Development
Consultancy / Game Development Services
Digital Rights Management
Concept Prototype Development
Publishing and License Acquisition

1998-2002 Lecturer / Research Assistant

Högskolan i Gävle

1999-2000 Senior Software Engineer

CitiKey AB

1998 Java Engineer

H.O.T.S. Ltd

1997-1998	Software Engineer	ADI Limited
1996-1997	Statistical Analyst	University of WA
1995	Software Engineer (Contract)	Sigma Systems Pty Ltd.

10+ years old - positions shown for informational purposes only (no longer relevant).

Advisory / Board Member

2017+	RioT Secure AB	Stockholm, Sweden
2013+	KISS Digital Media	Melbourne, Australia
2017-2021	GreatSway Enterprises	Stockholm, Sweden
2015-2017	Biosync Technology AB	Stockholm, Sweden
2015-2015	Evothings AB	Stockholm, Sweden
2012-2017	Kocoverk Mobile Tech Limited	Stockholm, Sweden
2002-2011	MedHand International AB	Stockholm, Sweden

Education

1993-1996	Bachelor of Science (Computing) Curtin University of Technology	Perth, Australia
1991-1992	High School Diploma Morley Senior High School	Perth, Australia TEE 408 / TER 98.05

Certifications

2013	Certified BlackBerry 10 Native Builder	Munich, Germany
2010	Certified HP webOS Developer	San Jose, USA
2008	Certified Scrum Product Owner	Stockholm, Sweden
2003	Certified Palm OS Developer	Munich, Germany
1999	Java Certified Developer	Gävle, Sweden
1997	Oracle Database Administrator	Sydney, Australia

Awards

1989-1992 Australian Mathematics Competition
1989-1990 Australian Computing Competition

Publications

2021	The Internet of Disconnected Things	Principal Author
2017	Mobile Developers Guide to Galaxy	Contributing Author (IoT)
2000	Palm OS: Software Protection	Principal Author
1999	Security in Set-Top Boxes	Principal Author
1999	GENTEX: Genetic Algorithm Textures	Contributing Author

Patents / Innovations

METHOD FOR RENDERING INFORMATION ON A DISPLAY

United States Patent US 7,937,656 B2, Issued May 3, 2011

The method is for rendering information on a display, comprising. Content components in a container are provided. A content handler (style sheet) is used to transform the content components. A key word in the content component is identified. A real time link is provided between the key word and an outside source. A screen size of a display unit is determined. A size of a first display is adjusted by only displaying a complete content of a first level of the content components and a link to a second level. The link is activated to display a complete content of the second level and a link to the second level.

<http://patft.uspto.gov/netacgi/nph-Parser?patentnumber=7937656>

SYSTEM AND METHOD FOR WIRELESS DEVICE CONFIGURATION

United States Patent US 9,756,501 B2, Issued Sep 5, 2017

A method for managing policies for groups of wireless devices, associated with a corresponding one of multiple different wireless device platforms comprising collecting for all platforms a set of configurations and policies supported by the platforms, and generating a master set of device agnostic rule definitions from the collected configurations and policies, the rules being defined without regard to constraints on the configuration settings governed by the multiple different wireless device platforms.

<http://patft.uspto.gov/netacgi/nph-Parser?patentnumber=9756501>

Speaking Engagements

2022 Arduino Week (Day 4: Arduino Pro) Turin, Italy (remote)

Invited to give a live interview on RIoT Secure's device lifecycle management platform specifically targeting resource constrained micro-controllers; showcasing a customer deployment with Scandinavian Airlines ground service handling at Stockholm, Arlanda airport. The topics focused on industrial solutions that utilize Arduino technology.

2022 Embedded Day - Must High Tech Expo Paris, France (remote)

Invited to give a presentation on The Internet of Disconnected Things, highlighting a approach to the architecture and development of Things to minimize the surface attack area in turn providing security against third party intrusion and hackers. The principles form the foundations and are applied within RIoT Secure's device lifecycle management platform.

2021 Data Science Seminars Tartu, Estonia (remote)

Invited to give a presentation on The Internet of Disconnected Things, highlighting a approach to the architecture and development of Things to minimize the surface attack area in turn providing security against third party intrusion and hackers. The principles form the foundations and are applied within RIoT Secure's device lifecycle management platform.

2018	Oracle Code	Shenzhen, China
2018	Oracle Code	Singapore, Singapore

Invited to give a luminary keynote covering a quick history of technology while inspiring developers to follow their dreams and be persistent through failure to reach success. Focus on the Internet of Things highlighting security issues and potential solutions to the problem, such as the lifecycle of IoT devices and a small plug for RIoT Secure AB.

2018	jFokus IoT 2018	Stockholm, Sweden
2017	Nordic IT Security	Stockholm, Sweden

Invited to give a presentation on Secure IoT Device Lifecycle Management, highlighting the challenges and compromises made to build a device agnostic secure end-to-end device management solution for the complete lifecycle of IoT devices - covering provisioning, monitoring and OTA updates through to eventual decommission.

2015	jFokus IoT 2015	Stockholm, Sweden
2014	NDC: One day of Internet of Things	Oslo, Norway

Invited to give a presentation on the feasibility of security within micro-controllers with a specific focus on IoT - covering performance measurements of implementing RSA and secure random functions on various Arduino compatible boards in addition to reviewing current concerns and other community efforts around IoT security.

2014	Hyper Island	Stockholm, Sweden
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Invited to give a guest workshop focused on the growing Internet of Things market segment for students within the Mobile Creative program - a quick introduction to IoT, concerns and applications within vertical markets coupled with a hands on project exploring two way communication between a mobile device and an Arduino micro-controller using BLE.

2012-2013	BlackBerry Jam Events	40+ countries, EMEA
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A key member of the developer relations' team focusing on developer awareness and launch of the BlackBerry 10 mobile operating system – a wide range of attendees (30-2000+) focusing on keynote presentations, user experience and in depth technical discussions.

2011	HP, Inc – formally Palm, Inc	London, United Kingdom
2010	Palm, Inc	Sunnyvale, USA

Invited to speak at the first Palm Developer Day focusing on getting started with game development using the SDL library ([Simple Directmedia Layer](#)), a toolkit provided within the PDK development environment for the Palm Pre™ and Palm Pixi™ devices.

http://developer.palm.com/index.php?option=com_content&view=article&id=2062

2010	SEB (Scandinavian Private Banking)	London, United Kingdom
2010	SEB (Scandinavian Private Banking)	Stockholm, Sweden

Invited to speak at two events hosted by SEB (Scandinavian Private Banking) to discuss the state of mobile platforms - specifically identifying the various operating systems available and their maturity, which target groups exist, what is the relevance of press/hype and what are the new trends coming into play that will influence them moving forward?

References

“Aaron is an incredible professional with an absolutely amazing combination of engineering and leadership skills - the perfect technical visionary who can quickly explain how things should be done and is not afraid to dive in and assist his team when there is doubt about implementation. I have learnt a lot from Aaron while he was my manager and I appreciate been given the chance to work with him.”

Vitaliy Ryumshyn, Employee

“I have worked with Aaron on multiple projects, and can say without reservation he is one of the most knowledgeable and resourceful developers I have had the privilege of meeting. Aaron has never found a task beyond his ability, and once started, he works with an amazing focus and drive to accomplish the task. His excitement is always contagious, and I enjoy working with Aaron. He is always available to provide advice and insight to his team and shows great leadership skills. I would eagerly recommend him for any position or project in need of quality leadership.”

Michael Ethetton – Business Partner

“Aaron's forte is architecting software, no matter the platform. He's one of the most talented coders I know and, at the same time, knows how to communicate effectively with his clients in a patient, laid-back and constructive manner. There's not a mobile device so obscure that Aaron hasn't written code for it. He's the go-to person for any project that's in need of a sound architecture.”

Ivo Jager – Business Partner

“Aaron Ardiri is probably the best and most imaginative programmer that I have had a chance to meet and work with. His solutions are straightforward, simple and very effective. He sees pathways where others stumble for weeks or months. The programs he create are absolutely top of the line, I have not yet met anybody as good as Aaron Ardiri.”

Anders Milton – Board Member

“Aaron goes above and beyond when you hire him to work for you. In our case we needed to do something so bleeding edge that we weren't even sure if it was possible. Aaron made the impossible happen and for delivery streamlined it so that a non-techie could do a demonstration at a trade show.

I would hire him again and again.”

Joel Evans – Client (Consultancy)

“Aaron has a visionary mind wrapped inside a business pragmatist's head. Aaron has not only engineered the single most impressive handheld product UI in the medical space, he has optimised that UI for just about any device you can imagine; from the iPhone to the Blackberry and even the PSP! But Aaron isn't just a software engineer - he is a solid and wise businessman which makes working with him all the better.”

Evan Schnittman – Licensing Partner (Oxford University Press)

“Aaron is a task-oriented manager with good project management skills. His expertise in embedded development is very valuable to any mobile technology company. Aaron also has a good sense for future trends and know-how to implement this in reality.”

Alisa Devlic – Employee

“Aaron has top notch tech skills and great experience in the mobile application development area (and beyond). He is also keen and patient to share this valuable experience with young engineers (i.e. like me :-)). Last but not least, I like the fact that he tries his best to create a happy and pleasant working environment. Thumbs up!”

Georgios Panagiotou – Employee

additional references / contact details available on request