

Ligiu A. UIOREAN

Curriculum Vitae

Contact

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Position Interest

Interested in a senior management position in the field of Information Technology with an organization that is implementing or operating large scale, multi-site, mission critical IT infrastructure.

Skills

Planning and management experience:

- IT Management
- Project and Program Management
- Operations Management, driving Operational excellence
- ITIL v3 and ISO20000 processes
- Managing large multi-cultural teams of employees, consultants and contractors
- Organizational restructuring and alignment
- Formulating long term people strategy
- Setting vision and communicating strategy
- Establishing KPIs and managing by objective

Technical

Airport Systems: Implementation, integration and maintenance of airport systems such as FIDS, PAVA, Staff and passenger WiFi, CUTE network, VDGS and GOS, advertising and media platforms. Experience in building and maintaining data interfaces with various airport information providers.

Security Systems: Design, implementation and maintenance of large scale CCTV, access control and alarm systems. Experience in interfacing and integrating security systems for better emergency response. Implementing video analytics for queue management, footfall metering and advanced analytics.

Microsoft Windows: Desktop and Server Operating systems, large scale deployment and administration with Systems Management Server, Messaging (Exchange 2003, 2010, mobile), Internet Security (ISA Server 2004, 2006), Active Directory design and implementation, advanced security policies.

Linux and Unix: In depth knowledge of Linux and BSD OS with over 10 years experience in deploying and administrating mission critical environments.

Server infrastructure: Designed and implemented medium and large (>120 racks) datacenter solutions using rack-optimized and blade server technologies. Devised provisioning tools and lights-out management. Worked with *HP*, *IBM*, and *Dell* product lines.

Storage Infrastructure: Designed and implemented large scale high availability storage solutions with multi-site redundancy and disaster recovery site. Employed the concepts of tiered storage, deduplication, thin provisioning and storage virtualization. Used advanced backup technologies for protecting physical and virtual assets and for backing up mobile workforce. Familiar with *EMC*, *HP*, *IBM* and *NetApp* product lines.

Virtual infrastructure: Designed and implemented virtual environments for consolidations and high availability using *Citrix XenServer*. Also familiar with *EMC's VMware*. Devised methods for automatic provisioning, capacity management and monitoring.

Networking: In depth understanding of TCP/IP and MPLS. In depth understanding of interior and exterior routing protocols. Traffic engineering and QoS. Over 10 years experience in designing complex network architectures optimized for availability, security and capacity. Designed mission-critical enterprise and carrier networks to support data, voice and video. Designed and implemented VPN solutions for site to site connectivity and mobile workforce. Familiar with *Cisco* and *Juniper* enterprise and carrier grade switching, routing and security platforms.

WiFi and Microwave: In-depth understanding of wireless and microwave planning tools. Designed and deployed large scale (over 1000 APs) WiFi networks with both conventional and mesh links. Planned and implemented over 80 point to point links in the 2.4 GHz, 5.8 GHz, 60 GHz and 80 GHz spectrum. Familiar with *Aruba*, *Motorola* and *Eband* product lines.

Infrastructure monitoring: Designed and implemented large scale integrated infrastructure monitoring and control systems for all aspects of network, datacenter systems, security systems and passive infrastructure. Designed and implemented a NOC/bridge facility.

Datacenters and Telecom infrastructure: Designed and implemented a 300 m² Tier 3 datacenter. Designed a 1000 m² Tier 4 modular datacenter. Standardized horizontal distribution and outside plant for very large campus area networks. Design and implemented ring topologies. Standardized and implemented over 110 telecommunication facilities.

Telephony: Designed and implemented hybrid and VoIP based telephony, teleconference and telepresence systems. Experience with evaluating solutions, designing distributed architectures and providing advanced integration to automate the complex environments.

Employment history

2008–current **Senior Infrastructure Development Manager**

Abu Dhabi Airports Company, Abu Dhabi, UAE

Combining the functions of design management and program management, responsible for a team of technology architects which are the subject matter experts for every information or communication systems related technology deployed in ADAC. Managing the design, implementation and commissioning of very large infrastructure projects in all of the company's five airports. Responsible for defining the operational procedures for mission critical systems that are deployed in the airports. Responsible for defining, writing, evaluating and executing RFPs for very large infrastructure projects. Responsible for setting the vision and strategy for IT services infrastructure of the company.

2006–2008 Global Infrastructure Architect

Bechtel, London/UK, Frederick, MD/US

Various positions on multiple projects, responsible for implementation of core infrastructure solutions. Member of a core group tasked with designing the next generation IT infrastructure for the largest engineering company in the United States with offices in over 26 countries and projects all around the world. The key objective of the initiative was to achieve consolidation and cost reduction through using cloud computing, while supporting the business to rapidly expand service in new geographical locations and provide consistent experience irrespective of the physical location. Achievements of the project were extensively covered in the media, including the CIO magazine, Network World and a PricewaterhouseCoopers case study.

2005–2006 Country IT Manager

Lasselsberger Ceramics AS, Romania and international

Led the entire regional IT organization of 23 people for one of the leading companies in Europe for raw materials, building materials and ceramic products. Was responsible for all aspects of IT management, including staffing and recruiting, budgeting and reporting to the executive committee. Coordinated at group level to achieve a homogeneous infrastructure and consistent service delivery in all company sites.

2003–2005 IT Lead

Lasselsberger SA, Romania and international

Subject matter expert and manager of an infrastructure team of 11 that was responsible for migrating and integrating a legacy IT infrastructure in three large production plants, the enterprise HQ, regional offices and sales outlets. The achievements were highlighted in a case study by Microsoft which can be provided as reference.

2001–2003 Project Manager

Analog Digital Control SrL, Romania

Led the entire life cycle of various IT projects, from the initial meetings with the client organization, throughout project implementation and close-out. Company was focused on providing IT services and IT service consultancy to various enterprise customers, mainly in the financial and manufacturing industry.

Ongoing and completed projects

Infrastructure

ADAC Technology center project, 2010–2012

Managing the design and implementation of a technology center that includes a state of the art 1000 *m*² (Tier 4) mission critical datacenter, a NOC/bridge area to manage a the multi-site environment of ADAC, office facilities to for the whole ICS group (over 125 people) and external contractors, meeting rooms and telepresence space. A complex project with multiple internal and external stakeholders.

Abu Dhabi Freezone Telecom infrastructure, 2009–2010

Managed the design and implementation of the telecommunication infrastructure for the ADFZ project. The complexity of the project is given by the objective of providing triple-play services in a mixed office and LIU environment. User demand can vary greatly and the challenge was to define a low OPEX solution that is also flexible and future-proof.

Midfield Terminal Complex, 2008–2015

Working with consultants and designers to establish all aspects of the IT systems in the third largest terminal building in the world. There are 41 IT systems that will be implemented, ranging from a 500 m² mission critical datacenter to communication rooms, network and advanced airport systems.

Design and implementation of a 300 m² datacenter, 2008–2010

Managed the design and implementation of a critical airport datacenter (Tier 3). The datacenter is part of the Terminal 3 of Abu Dhabi Airport and can host up to 80 racks. The installed power per rack is 6.5KW. The datacenter is operating as revenue generating colocation facility for multiple tenants.

Abu Dhabi Air Traffic Control Tower, 2008–2010

Managed the redesign and implementation of the telecommunication infrastructure for a critical airport infrastructure. The challenge was to ensure a nonstop operation of the facility over the projected lifespan while ensuring that the IT infrastructure is flexible and can support in service upgrades.

Abu Dhabi Terminal 3, 2008–2009

Managed the implementation, handover and transition into production of a new terminal building at Abu Dhabi Airport. A complex program involving a datacenter, multiple communication rooms, data and CCTV network, WiFi coverage, advertising, voice and video systems. Ultimately responsible for the successful transition into production of Network, Voice and wireless infrastructure, PAVA, FIDS and checkin facilities, related ELV systems. Performed post implementation review of systems matrix and performed further integration with the existing airport and facilities.

Project infrastructure for Bechtel, 2006–2008

Managed a program for the design and implementation of two regional modular communication nodes, network infrastructure and server infrastructure to support the development of a 415km highway, the largest infrastructure project in Europe at the time. The major challenge was to produce a flexible setup that can adapt to the changing environment. The linear nature of the project and the tough environment demanded customized solutions. A large number of point to point wireless links was deployed to insure connectivity across the construction site and to satellite offices.

Server, software and networking**Airport operational database for ADAC, 2011-2012**

Implemented infrastructure to support airport operational database. The infrastructure supports a mission critical system that coordinates and records all airport operations. Implemented 19 interfaces to other systems and proactive monitoring and alerting of all components and interfaces.

Media distribution platform for ADAC, 2011-2012

Designed and implemented a media distribution platform with over 400 large screen TVs. Media platform is a software and hardware product that is able to drive the display of IPTV, advertising, flight information and safety broadcast messages. System can be schedule driven or event based by interfacing with alarm system and passenger tracking system.

WiFi coverage for ADAC, 2011

Managed the design and implementation of a large scale WiFi network covering AUH campus. Systems supports corporate traffic, airport services, cargo operations and free WiFi traffic in a

secure and converged infrastructure. System supports real-time coverage monitoring, rogue access point detection and passenger traffic. It further supports integration with third party system to provide location services. Service was rated 5 stars by Skytrax in 2012 for passenger experience.

Design and implementation of a converged carrier Ethernet network, 2008–2012

A complex program, which based on the standardization exercise, has the objective to design a converged carrier grade Ethernet network to support all airport data, voice and video communication, including tenants and critical traffic. The network supports all mission critical communication services including passenger processing and flight and resource management. Project scope includes ducts and duct bank infrastructure, cabling infrastructure, ring network topology, MPLS network and seamless migration from legacy network infrastructure.

Virtual platform for ADAC, 2009-2011

Designed and implemented the network, storage, server and virtualization layer for a highly redundant virtual platform supporting all mission critical airport systems. Migrated 90% of server systems to new virtual platform, providing a 20:1 consolidation ratio and above 99.999% platform availability. Systems also support virtual desktop clients and provides services from enterprise to airline systems and passenger information kiosks. Passenger kiosks were rated 5 Stars by Skytrax in 2012.

Project asset and helpdesk system for Bechtel JV, 2006

Designed and implemented an asset management solution and a helpdesk system to centralize all information for a large project site. System significantly improved operations and the responsiveness of the support team and allowed accurate SLA monitoring.

Brown field implementation of complete IT infrastructure for Lasselsberger, 2003–2005

Designed and implemented a highly available network spanning 3 company plants, company HQ, regional offices and sales outlets. Migrated legacy applications and systems and implemented a complete Microsoft Server System based solution for identity management, communication, desktop management and infrastructure management. The achievements were highlighted in a case study by Microsoft which can be provided as reference.

Planning and Development

Technology standardization for ADAC, 2008–2010

Initiated, drove and managed the requirements gathering, RFP stage, evaluation and close-out of the technology standardization for the IT infrastructure of five airports. Established standard platforms for VoIP, Networking, WiFi, Servers and virtualization, taking into consideration specific demands, performance, compliance and TCO of selected solutions. The project resulted in over 65% average reduction in CAPEX and an estimated 80% reduction in OPEX over 5 years.

ADAC disaster recovery plan 2011–2012

Managing the creation and implementation of the Airport Disaster recovery plan. Effort included classification of services in line with business requirements, devising a recovery plan and procedures in line with agreed SLAs and defining an organization and communication structure for crisis situations. Disaster recovery plan has successfully passed an audit by KPMG.

ICT Masterplan for ADAC, 2008–2009

Worked with external consultants to define all IT related standards for Abu Dhabi Airport Company. Defined transition and implementation strategy for IT and airport systems. Document forms the basis of all IT initiatives and is updated yearly.

ISO 20000 Process implementation for ADAC, 2011-2012

Worked with consultants to design, document and implement core IT processes following the ISO 20000 framework. Company is undergoing audit and certification.

Security

Managed Security Service Platform for ADAC, 2011-2012

Implemented a unified platform for data collection, event correlation and alerting. System collects data from all servers and networked devices, aggregates and reports events in real time and provides rules-based alerting and escalation of detected events. Deployed IPS/IDS, firewall and network segregation in order to insure key points are monitored and appropriate control is enforced.

Access control and CCTV surveillance system for ADAC, 2010-2012

Designed and managed the implementation of very large scale access control and surveillance system for multiple airports. Storage capacity exceeds 10PB and system provides interfaces to various sensors and alarms such as access control system. System is able to correlate input from the field and pre-configured response procedures for a unified threat response. System is able to support advanced video analytics in order to provide information for queue management, commercial footfall metering, other analytics.

Other completed Projects

- *Gap analysis and process implementation of ISO 20000 compliant processes*
- *Implementation of ITIL-aligned processes*
- *Design and implementation of SharePoint portal server*
- *Design and implementation of Microsoft Exchange 2003, 2010*
- *Design and implementation of Microsoft SCCM for software deployment and patch management*
- *Developed design guidelines for all critical IT infrastructure components for the use of designers and contractors*
- *Defined SOPs for IT operations*
- *Implemented a self-service IT Lab solution for testing products, solutions and configurations*
- *Implemented a multi-site, multi-company video conferencing solution providing service over a heterogeneous infrastructure*
- *Design and implementation of Active Directory in multi-site, multi-entity environment*
- *Implementation of Desktop security policies for enterprise and third-party (consultants, contractors) users*
- *Design and implementation of secure internet kiosk systems for passengers*
- *Design and implementation of analogue and digital Master Antenna TV system for Bechtel Campus*
- *Selection and implementation of group-wide endpoint security solution for Lasselsberger Ceramics*
- *Roll-out of group-wide ERP solution for Lasselsberger Ceramics*

Education

BSc & MSc (Engineering) Computer Science and Control Systems, 2006
Technical University of Cluj Napoca
Cluj Napoca, Romania
Thesis: *Vehicle GPS tracking with two way communication*

Baccalaureate, 2001
"G.Cosbuc" National College for native Germans, Cluj Napoca, Romania

Other trainings and certifications

PRINCE2, Projects In Controlled Environments, 2007
Foundation Certified
Boston University

ITIL v3, Information Technology Infrastructure Library, 2010
Foundation Certified

PMP, Project management Professional, 2009
Training, PMI

CFA, Chartered Financial Analyst, L1, 2010
Training, CFA Institute

Published papers

The CREC Reconfigurable Computer
Octavian Cret, Cristian Vancea, Balint Szente, *Ligiu Uiorean*, Florin Rusu
Proceedings of the 1st Balkan Conference in Informatics, p. 476, November
21-23, Thessaloniki, Greece, Publishing Centre T.E.I. of Thessaloniki, 2003,
ISBN 960-287-045-1

The CREC general purpose reconfigurable computer
Balint Szente, Cristian Vancea, *Ligiu Uiorean*, Florin Rusu, Octavian Cret, Kalman Pusztai
Proceedings of the IP Based Design Workshop, p. 217, November 13-14,
Grenoble, France, 2003.

A hardware / software codesign method for general purpose reconfigurable computing
Octavian Cret, Kalman Pusztai, Cristian Vancea, Balint Szente, *Ligiu Uiorean*, Adrian Darabant,
In Proceedings of the 14th International Conference on Control Systems and Computer Science,
July 2-5, Bucuresti, Romania, Editura Politehnica Press,
2003, ISBN 973-8449-18-9

Miscellaneous

Languages (spoken and written): Romanian, English and German
Citizenship: Romanian
Marital Status: Single
Hobbies: photography, sports, reading, driving, travel

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