

# Curriculum Vitae: Dr Pierre Jacobs

## OVERVIEW

Pierre has a PhD in Computer Science from the University of Johannesburg specializing in frameworks and models for developing and measuring security operation centre (SOC) effectiveness.

Pierre has 20 years extensive and hands-on IT experience focusing on information security and related fields. He has a very solid understanding of information security governance, management and technical controls at both organizational and national level. He is familiar with numerous standards and frameworks and has implemented and used them across various industries. He has proven his competence by obtaining a number of internationally accredited certifications.

Pierre has served in various senior management roles including Cyber Security Operations Manager at Cisco Systems, Technical Manager at Torque-IT, Services Delivery Manager at ContinuitySA, and SOC and Security Manager at Faritec and Datacentrix. He also served as a consultant to companies in the financial, mining and government sectors. During the course of his career he has developed strong managerial skills and a good understanding of business and technology in general. Pierre is adept at translating information security concepts and requirements into business language and is comfortable with presenting at executive level. He also enjoys working with people and has a love for transferring his knowledge and experience.

### **Career Highlights**

- Currently employed by Cisco to build a hybrid SOC at one of South Africa's biggest banks – a global first for Cisco and the financial industry in South Africa
- Developed a SOC maturity model that has been used by organization to measure the maturity of their SOCs
- Consulted on the planning, development and operationalization of South Africa's national Cyber Security Incident Response Team (CSIRT)
- Advised on the planning of South Africa's Department of Defense (DOD) Cybercommand and the South African Police Service's Cybercrime Centre
- Developed the security design of a mobile next generation network for South Africa's DOD
- Developed the vulnerability management strategy and process for AngloGold Ashanti and South Africa's Council for Scientific and Industrial Research (CSIR)
- Developed the security architecture for Ar-Riyadh Development Authority's Intelligent Transport System in Saudi Arabia - including the Automated Fare Collection (AFC) system and its interfaces into the Saudi financial sector.
- Developed the Ar-Riyadh Development Authority Information Security Policy using the NIST SP800-53 and ISO/IEC 27001:2013 standards

## Curriculum Vitae: Dr Pierre Jacobs

### PERSONAL DETAILS

**Surname** : Jacobs  
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**Marital Status** : Married

### QUALIFICATIONS AND CERTIFICATIONS

\*Note that degree and diploma certificates are available on request

#### UNIVERSITY AND SCHOOL

**PhD (Computer Science)** specializing in information security, University of Johannesburg, 2019.

**MSc (Computer Science)**, specializing in information security, Rhodes University, 2015.

**BCom Law** – current, UNISA (*distinctions obtained for all subjects written thus far*), UNISA.

**Introduction to Information Security (Diploma)**, UNISA, 2004.

**Matric** (with exemption), Potchefstroom Gimnasium, 1998.

#### CERTIFICATIONS AND COURSES

- **Enterprise Architecture**

**Iteratec and Iteraplan** - Enterprise Architecture tool, 2015.

**Archimate** - Enterprise Architecture tool, 2015.

**UML Enterprise Architect** – Unified Modelling Language using Sparx EA, 2015.

**TOGAF 9.1** – Passed international exam Level 2, 2015 (need to rewrite TOGAF Foundation).

**LEAD** – Layered Enterprise Architecture Development, 2015.

- **Systems Engineering**

**OCD and CONOPS development** - Project Performance International, 2014.

**Systems Engineering** - Project Performance International, 2014.

- **Frameworks and Standards and Vendor Neutral**

**CoBIT 5 Foundation and Implementation** - ISACA, International Exam, 2017

**ITIL V3 Foundation** - Axelos, International Exam, 2009.

## Curriculum Vitae: Dr Pierre Jacobs

**CISM** - ISACA, 2013 ISACA ID: 1204752. Certification not current.

**COBIT for Managers**, ISACA, 2013.

**Information Security: Strategies and Techniques**, 2008.

**Network Defence and Countermeasures**, 2007.

**Security +** - COMPTia, 2005. COMPTia ID: 10501474

**CISSP** - (ISC)<sup>2</sup>, 2005. CISSP ID 76540. Certification not current.

**Network+** - **CompTIA**, 2004. COMPTia ID: 10501474.

- **Vendor Specific**

**Cisco AMP**, 2019

**Cisco StealthWatch**, 2019

**Symantec Control Compliance Suite 10**, 2014

**RSA envision**, 2014.

**RSA Archer** (Governance, Risk and Compliance), 2014.

**Riverbed**, 2013.

**McAfee Technical Specialist**, 2013.

**Novell Sentinel**, 2011.

**Qualys Certified Engineer**, 2007.

**FCNSP (Fortinet Certified Network and Security Professional)**, 2005.

**Cisco CCNA**, 2005.

**Novell CNA Netware 5.1 and 6**, 2003.

**LINUX**, 2003.

**MCSE 2003**, 2003, MCP ID: 1438485.

## EMPLOYMENT HISTORY

### **August 2018 – Current: Cybersecurity Operations Manager at Cisco Systems, Inc.**

- Deployed at one of South Africa's largest banks to plan, build and establish a SOC. This involves integration with Cisco's advanced threat analytics (ATA) SOC in Poland, as well as facilitating Cisco Systems, Inc. Monitor, Detect and Respond services. My duties include building the SOC, establishing the service, developing processes and managing staff. This is a global first for Cisco, and a novel way of deploying SOC services.
- Part of the team driving organization-wide projects such as secure-LDAP, onboarding of Payment Systems onto the monitoring platform and Azure Monitor.

### **August 2017 – July 2018: Dorsch Cybersecurity Expert – Kingdom of Saudi Arabia**

- Appointed by Dorsch to serve as a cybersecurity expert for the Ar-Riyadh Development Authority's (ADA) Intelligent Transport System (ITS) for the Kingdom of Saudi Arabia as part of a multi-national team. Developed a Security Control Framework for the ITS and also responsible for the development of the ADA ITS Information Security Policy.

Responsible for reviewing and vetting information security designs for the various build packages from different consortiums – including aspects of mobile application security, application security, and network and telecommunications security.

Developed a framework for use by ADA to ensure all data and telecoms security aspects are covered. This was done using the TOGAF Technical Reference Model (TRM) to ensure all ICT infrastructure aspects are covered, ISO/IEC 27001:2013 to ensure administrative

## **Curriculum Vitae: Dr Pierre Jacobs**

controls are covered, NIST SP 800-53 and ITU-T X.805 to ensure complete coverage of technical controls, across the SANS cybersecurity activity phases.

### **January 2017 – August 2017: CSIR DPSS Principal Cybersecurity Systems Engineer**

- Developed the national SAPS Identity and Access Management (IDAM) strategy and IDAM RFP following an enterprise architecture approach.

### **February 2013 – December 2016: CSIR DPSS Senior Security Architect**

- South Africa Department of Defense (DOD) – exact nature of the work is classified. Used system engineering principles to build a project-specific solution for the DOD. Responsible for the ICT security around a Next Generation Network telecommunications system.
- Developed Security Architecture Framework for a DOD telecommunications project
- Developed Information Security Risk Management Strategy and Process for DOD telecommunications project.
- Part of core team working on IT security projects in the national interest, such as the Cybersecurity Hub (National CSIRT). Other projects are classified.
- Developed Security Enterprise Architecture of Transnet Engineering.
- Assisted with the CSIR POPI Act gap analysis.
- Developed and wrote the CSIR Vulnerability Management Strategy and Process.
- *Awarded a DPSS Stars Award in December 2015.*
- Writing of proposals to clients such as Denel, DOD, DTSP and other state departments.
- Security Solution design (product agnostic) for entities such as DTSP, Denel and Armscor

### **June 2010 – January 2013: Datacentrix (DCX) Chief Security Architect and Senior Security Consultant**

- Responsible for establishing the DCX Professional and Managed Security Services and growing its service offerings. The focus was on services and solutions. Fulfilled a pre-sales role during the growing of the business.
- Planned, built and ran the DCX SOC. First EMEA SOC to offer traditional MSSP services as well as GRC services. Grew the revenue stream to show profitability within 6 months. Monitored over 53 000 devices (Transnet and Neotel).
- Developed GRC Strategies for clients across different industries (financial, mining, government).
- Wrote proposals and developed security solutions for DCX clients. This was done through an as-is assessment against a standard, identification of the “to be” state and developing a strategy on how to get the client to the desired state.
- Developed ICT Policies and processes for DCX as well as their clients.
- Performed Security Maturity assessments at clients using CoBIT and ISO/IEC 27001:2005
- Mapped CoBIT 4.1 to ISO 27001 and PoPI Bill and security controls.
- Wrote proposals for different security solutions for clients. Proposals led to contracts.
- Part of the strategic team that designed the DCX Cloud Services responsible for DCX’s cloud security architecture. Cloud offering was designed to cater for 18 000 users.

### **June 2009 – June 2010: Faritec Security Services Manager**

- Responsible for Service Delivery to all Faritec Security Clients.
- Achieved set turnover targets for the Services division by prioritizing service improvement requests and identifying gaps for future functionality.
- Fully understand fees schedule of client contract as well as continuous update of contract with ARC/RRC’s.

## **Curriculum Vitae: Dr Pierre Jacobs**

- Took ownership of client statement in order to reduce age date of invoices.
- Defined IT services rendered to clients by producing and maintaining the service catalogue
- Drafted and negotiated service level agreements with customers and conducted ongoing monitoring and reviews of SLA requirements and achievements.
- Defined key performance indicators and managed the improvement thereof.
- Produced management reports to clients in respect of operational / project deliverables of the past month / quarter.
- Was accountable for client satisfaction and retention.
- Provided customers with a concise view on the performance of their services on a monthly basis. The report was a mechanism to have informed discussions with clients on how best to improve and enhance their current solutions.

### **January 2007 – June 2009: Faritec Security Consultant / SOC Manager**

- Outsourced to Comsec to plan, build and operationalize their SOC.
- Faritec SOC Manager looking after 13 staff. Responsible for all operational aspects, and support on client technologies. Technologies supported were: Sentinel, Cisco ASA, TippingPoint, BrightMail etc.
- Assisted in the implementation of a vulnerability management strategy at AngloGold Ashanti (AGA). This includes policies, procedures as well as running scans. Analysis and executive reports delivered to the customer. This was for AGA international.
- Promoted to Service Manager where oversaw all service-related aspects for clients. Duties included:
  - Liaise with vendors
  - Monthly meetings with clients
  - Allocating resources to clients
  - Address any issues / challenges regarding service offering to clients
  - Identify ways to improve service offering to clients
  - Assist in proposals to clients
  - Oversee the take on process
  - Identify service offerings to clients
  - Approve staff claims and leave
  - Manage staff KPA's
  - Ensure ITIL process is followed

### **June 2006 – January 2007: ContinuitySA OPS Manager / Client Services Manager**

- Responsible for Service Delivery aspects for customers
- Alignment to ITIL and CoBIT best practices – as driven by client requirements, and audited by JPMorgan Chase (UK)
- Develop and maintain all IT related policies and procedures
- Implemented Helpdesk - Illient Sysaid
- Developed a Quarterly Bill of Health teste plan and tested all IT kit
- Liaison with customers up to Director level
- Responsible for all Operational aspects such as reviewing of SLA's etc
- Responsible for all vendor / contractor contracts
- Management of 8 Engineers, one secretary and one receptionist. This includes all HR related functions such as KPI's etc
- Monthly meetings with clients, OPS meetings with stadff once a week.
- Management of internal IT Infosec
- Procurement of IT kit as well as software i.e. EAS, Fortigate, routers switches etc.
- Sign off on PO's
- Participated in monthly MANCO meetings

## **Curriculum Vitae: Dr Pierre Jacobs**

- Implementing a change management strategy, as well as driving conformation to JPMorgan Chase OSP standards using ITIL and CoBIT.

### **August 2004 – June 2006: Namitech Infrastructure Security Engineer / Senior Security Consultant**

- Appointed as Infrastructure Security Engineer
- Served as the Senior Security Consultant for some of our clients with a National footprint.
- Main duties include monitoring on CSIDS V4 (VMS), and netForensics, also Intruvert, ISS and Fortigate.
- Troubleshooting and maintenance of mentioned products.
- Response for detecting threat and responding to those threats.
- Delivery of Daily and Monthly Reports to customers.
- Analysis of IDS / IPS / FW and UTM traffic for reporting to customers.
- Response and escalation of security incidents.
- *Employee of the month in June 2004.*

### **July 2003 – July 2004: TORQUE IT Senior Trainer**

- Appointed as a senior trainer for the Umsobomvu Project
- After 6 months, promoted to Technical Manager. Responsible for all technical managerial aspects pertaining to the Learnerships
- Responsible for physical security of computers and Student databases.

### **2000 – June 2003: Advanced Concepts Trainer / System Administrator**

- Training of students in subjects such as MCSE, Security+, CCNA and routing and switching.
- Troubleshooting and fixing of Networks and PC repairs
- Call outs to customers for PC repairs / Network troubleshooting / fixing
- Maintenance of PC's / Printers and Networks
- Exchange Server 2000 Administration and security
- Maintenance of ISDN / ADSL Links
- Development of policies and procedures with regards to network security. (Advanced Concepts and Capital Software)
- Assisted in the planning and implementation of the Exchange 2000 and Active Directory at Lesotho Telecoms
- Responsible for Advanced Concepts client's IT security using Microsoft products, as well as third party products

### **1993 – 1999: SANDF Officer (1SAI MLW, 61 Mech Inf Bn Gp, 121 SAI Bn, RJTF East)**

- Managing of Operations in Kwa Zulu Natal Region
- Compiling of Incident Reports and Situation Reports for KZN
- Planning / Execution of Operations in KZN
- Company Commander: Planning / execution of Operations and the management of Personnel affairs, Intelligence gathering and processing, management of logistical and financial affairs of 150 troops.
- Liaison with local and Provincial authorities
- Planning of retraining sessions during non-deployment periods.
- Managing physical Infosec during deployments, as well as in the Ops Room

### **1991 – 1992: Student at Potchefstroom University**

## **Curriculum Vitae: Dr Pierre Jacobs**

**1989 – 1990: National Service SADF: Junior Leaders – 61 Mech Inf Bn Gp**

### **REFERENCES**

Will be made available on request.