

1. Summary.

A balanced experience across Global Enterprises, SMEs, Startups, Scaleups, Innovation Labs, Institutions, and Advisory Consulting firms from strategy, planning, inception, implementation, transformation, to operations, at varying levels of maturity, scope, and scale.

Led, implemented, and operated large-scale enterprise transformation programmes involving complex infrastructure modernisation; cyber-physical systems; machine & artificial intelligence platforms and engineering; data platform governance, analytics, & ops; digital strategy; software and systems architecture,

engineering, & operations; hybrid cloud infrastructure practices in global and regional infrastructure environment; customer channels expansion and outreach; and other critical systems engineering.

Sectors: Technology, Utilities, Energy, Waste, Water, Telecommunications, Transport, Public Administration, International Institutions, Defence, Airlines, Healthcare, Banking, Finance, Investment and Wealth Management, Insurance, Sports, Media, Advertising, Education, Entertainment, Manufacturing, Retail, Real Estate, Mining, Logistics, Research, Tourism, and others.

2. Relevant History.

2.1. [Data, Digital, Technology] [Strategy, Transformation, Operations] (Worldwide Scope.)

2022 January - Present | ZedOptima GmbH (CH : Global Missions, Ventures, and Futures.) | <https://zedoptima.co.uk>

Domains, Roles, And Responsibilities:

Management of and Shared Resource of programmes, projects, and investments for partners, ventures, enterprise customers, and institutional clients. Multi-spectrum technologies and operational models across various industries utilising Physical and Digital products and services; Technology, Infrastructure, Venture Economics, and Finance; Digital Transformation; Cyber Physical Systems; Hyperscaler Clouds; Hybrid and Private Sovereign Infrastructures; IT Operations; Data Infrastructures and Platforms; Data Governance, Management, and Engineering; Physical and Cyber Security; IoT; AI / Machine Learning Systems Design, Engineering, Operations, and Data Management; Innovations Strategy, Governance, Management, and Finance; Greenfield Sectors like neo-banks, Gigafactory for EV, battery, semiconductor, and renewable energy; Healthcare technology and clinical operations; National and Global Broadband, Data Centre, and Telco network engineering, permitting, and construction; Civil infrastructure, et al.

2.2. Chief Architect (dedicated assignment via Z/O) | Group Digital & Technology (SG-Based. Worldwide Scope.)

2019 July - 2021 December | Sembcorp Industries | <https://www.sembcorp.com/>

Domains, Roles, And Responsibilities:

Previous role(s).

- Principal Architect, Centre of Excellence and Innovations (reporting to Board); Principal Cloud Architect and Engineer (reporting to CDIO Office);

Category.

- Hybrid Cloud. Engineering. Security. Governance. Compliance. IT Operations. IoT. Data Platforms. Machine Learning. IoT. Microgrid. Energy Sustainability. Mobile. Utilities. Marine. Urban Development. M&A.

Summary.

- Partnered with all organisational pillars and lead digital workstreams for Core Infrastructure/Systems, Cloud Platforms, Data Management and Science Platforms, ML and AI implementation and ops, IT and OT Security Platforms, RPA, Industrial IoT for Instrumentation and Control, ETRM Implementation, Blockchain Renewable Energy Certificates, B2C Energy, Critical National Infrastructures, Power Plants, Solar and Wind Renewables, Waste Management, Urban Solutions, Water Infrastructure, Microgrids Management, EV Charging Networks, ESG, Group Risk Management And Audit, End User Computing, IAM, and others.

2.3. Head | Engineering. Design. Digital. Innovations. Technology. (SG-Based. Pan-Pacific Scope)

2015 January - 2019 June | Javasparks (acquired by ZedOptima GmbH) | <https://zedoptima.com/>

Domains, Roles, And Responsibilities:

Previous role(s).

- Chief Architect and Engineer (Global) | Engineering. Design. Innovations. Technology.

Our select clientele distribution.

- 70% Startup Companies, 20% SMEs, and 10% Enterprise & Governments.

Category.

- Special projects and programmes. Product and Platform Reference Implementations. Global Business. Transformation Initiatives. Design and Innovations Programmes. Scientific Research, Development, and Simulations. Startup SEAL force for growth and rescue.

Summary.

- Lead and support field sales engineering, architecture, engineering, and customer solutions delivery for multi-modal infrastructure cloud, data, applications, integrations, and intelligent systems.
- Lead and support the development of advanced practice for machine learning, artificial intelligence, cyberphysical systems, cybersecurity, DevOps & infrastructure automation, industrial IoT, et al.
- Expand regional market coverage and strategic partner alliances for emerging technologies and practices.
- Fulfil the role as Field CTO to partner, advise, and deliver key customer solutions and innovations; stewarding an aggregate of S\$300-M annual portfolio budgets across multiple clients

2.4. Principal Architect | Group Centres of Competence

2013 January - 2014 December | Indra Company | <https://www.indracompany.com/>

Key Domains And Responsibilities:

- Enterprise. Innovations, Solutions, & Alliances. Cloud, Mobile, Big Data, Architecture, Design, Engineering, Digital, & Smart Platforms. Telecommunications, Media, Industry, Commerce, & Civil Infrastructure.

Key Projects and Assignments (Key Customers and Roles, direct or alliances):

- Philippines Government: National Land Transportation Office IT Modernisation Project
- Smart Communications: Network Security & Operational Intelligence Solutions
- Smart Communications: Cloud Transformation Strategy, Roadmap, and Pilots
- Globe Telecom: Google Workspace Onboarding and Migration
- Globe Telecom: Hybrid Cloud Implementation (AWS / Azure / Helion)

2.5. Programme and Engineering Director | Worldwide eCommerce Platforms

2013 July - 2013 December | PC Mall / MacMall (acquired by Insight) | <https://www.insight.com/>

Key Domains And Responsibilities:

- Stewarded the critical and end-to-end transformation and modernisation initiatives of the largest Apple Direct Reseller in North America that directly supported and captured the immense surge in Holidays eCommerce traffic, transactions, and fulfilment that tripled/quadrupled decades-long sales records, amounting to more than \$10-M during peak week and over \$30-M through the course of 6 months.

2.6. Principal Architect | OSS & BSS Transformation

2012 July - 2012 December | Globe Telecom | <https://www.globe.com.ph/>

Key Domains And Responsibilities:

- Initiated and accelerated the Enterprise, Solutions, and Integration competency of a multi-year, whole-of-enterprise programme for a leading telco company with a programme portfolio of nearly 1-B USD with 200-M USD BSS-OSS stream under direct inception and stewardship. Directly facilitated and built the

core infrastructure for Enterprise Integration capabilities through the reference implementation of several key technologies and top vendor offerings for ESB, Data Appliances, Private Cloud Infrastructures, and etc

2.7. Head, APAC | CoE and Software Labs

2011 July - 2012 June | Indra Company | <https://www.indracompany.com>

Key Domains And Responsibilities:

- Initiated and led the full-spectrum mobilisation and ramp-up of a new division and Centre of Excellence for Energy, Utilities, and Industries as the APAC Regional Hub. This is in support of several core industry solutions and international clients' development projects.
- Onboarding more than 120 local developers, analysts, team leaders, and project management offices in coordination with several management and executive-level stakeholders from several locations and time zones in 3-4 months.
- Developed principles and strategies for the Global Delivery Model with provisions and guidance for localisation across multiple countries on 6 continents.
- Successfully landed, planned, and delivered the first of many projects that achieved revenue recognition of over 7-M Euros in less than a year.

2.8. Senior Enterprise Architect | Software. Technology. Enterprise.

2009 January - 2011 June | Soluziona (acquired by Indra Company) | <https://www.indracompany.com/>

Key Projects and Assignments (Key Customers and Roles, direct or alliances):

- Numerous public sector clients for end-to-end ground-up architecture, design, engineering, roll-out, and maintenance projects; best practices implementations of COTS solutions spanning several functional areas, or phased implementation and enhancements which include ERP, best-of-breed sector solutions, system and data integration and federation for operational and analytical functions, and others.
- eFPS (BIR Tax System), eDoc (Office of the President knowledge base), Data Warehouse (Central Bank of the Philippines), eReg (DTI/SEC business registration lifecycle management), Vehicle and Drivers License Management (LTO), ERP and Data Management Platforms (GSIS), and others.
- Several large-scale projects and transformation programmes for utilities (Meralco [CMS, FMS, MMS, SAP, ERP, etc], Cepalco [ERP], Maynilad, Manila Water, Energy (Aboitiz, Lopez), Communications (Smart, Sun, PLDT), Media (TV5, ABS-CBN), Logistics and Terminal Systems (ICTSI), etc.

2.9. Principal Consultant | Software And Systems

2007 January - 2008 December | Javasparks (acquired by ZedOptima GmbH) | <https://zedoptima.com/>

2.10. Chief Architect And Engineer | CFD. Aerodynamics. Avionics.

2003 January - 2006 December | SwiftDynamics (acquired by LMT) | <https://www.lockheedmartin.com/>

2.11. Lead Engineer - Software And Systems | Lead Instructor - IBM-ACE Programme

2001 January - 2002 December | IBM | <https://www.ibm.com/>

2.12. Software And Systems Engineer | Infrastructure Network Engineer

1998 January - 2000 December | Sun Microsystems (acquired by Oracle) | <https://www.sun.com/>

Developer and Engineer on several projects and products:

- Solaris OS [kernel, shell, zones (old old basis for containers)]
- NFS Reference Implementation
- Java Virtual Machine and SDK [post Green Project]
- Netbeans IDE [post-acquisition roadmap]
- StarOffice and OpenOffice [post-acquisition porting]
- Corporate Campus Fibre Infrastructure design, engineering, construction, and commissioning.

2.13. Lecturer & Curriculum Developer | Higher Education & Continuing Professional Education Institutions

1998 January - 2015 December | Multiple Universities and Institutes (Singapore, Malaysia, Japan, Philippines)

Organisations:

- APC - Asia Pacific College. FEU - Far Eastern University. Informatica APAC. IBM Advanced Career Education Institute. MIT - Mapua Institute of Technology. Genetic Computer Institute. iAcademy.

2.14. Open Source Software and Systems Engineer | OS / Internet / Runtime / Sciences / IDE / Tools

1998 January - 2015 December | Multiple Initiatives and Foundations (Apache, Linux Foundation, NASA, et al)

3. Education. Certifications. Accreditations. Publications.

MSc. Business, Political Economy, and Society; Birkbeck, University of London, UK. (Merit, 2023)

MSc. Information Systems Management (Innovations for IoT, Smart Cities, and AI); University of Salford, UK. (2017)

<https://www.researchgate.net/profile/Dean-Marc-Co>

AWS Certified Solutions Architect - Associate (AWS00558088, multiple renewals)

AWS Certified Solutions Architect - Professional (AWS00558088, multiple renewals)

AWS Cloud Accredited Business Professional (AWS00558088, multiple renewals)

AWS Cloud Accredited Technical Professional (AWS00558088, multiple renewals)

Google Certified Professional Cloud Architect (Certification ID: ruDAzg)

Google Certified Cloud Digital Leader (Certification ID: zFN1CY)

Microsoft Certified Azure Administrator (1xx | Certification Number: H267-8632 | multiple renewals)

Microsoft Certified Azure Solutions Architect Expert (3xx / 3xx | Certification Number: H309-648 | multiple renewals)

CSM - Certified Scrum Master (Scrum Alliance License Certification #: 155710 | multiple renewals)

CSPO - Certified Scrum Product Owner (Scrum Alliance License Member #: 000147504 | multiple renewals)

Sun Certified Programmer/Developer (Sun Microsystems, now Oracle)

Sun Certified Web Component Developer (Sun Microsystems, now Oracle)

Sun Certified Enterprise Architect (Sun Microsystems, now Oracle)

Sun Certified Master Java Instructor Sun Microsystems (now Oracle)

Raytheon Certified Architect Program, Distinguished Enterprise and IT Architect Profession Leader

IBM Certified ACE Instructor for Software Engineering Curricula (License Code ATP001010610)

Association of Banks in Singapore (ABS): (1) Structured Deposits & Dual Currency Investments Certificate (Ref. DUC2103DC1613330450W) - Structured Products Certificate (Ref. STP1903DC1613335450W); (2) Foreign Exchange Margin Trading Certificate (Ref. LFX1803DC1613268450W); (3) Unit Trusts and Investment-Linked Insurance Policy Certificate (Ref. UNT4203DC1613361450W); (4) Contracts for Difference (CFDs) Certificate - (Ref. CFD2003DC1613246450W)

SGX (Singapore Stock Exchange) - SGX SIP Certification (Ref. 86027)

Corporate Governance Institute (UK. Ireland. USA. | Membership ID: mp-txn-6557d0447ed91)

A Field Guide To A.I. For Business, Institutions, Society, & Political Economy. London. ISBN 978-1-7394463-0-7.

A Field Guide To Cyber For Business, Institutions, Society, & Political Economy. London. ISBN 978-1-7394463-2-1.

NUMBERS. Plain And Simple. Series 1. 1-100. London. ISBN 978-1-7394463-3-8.

Updated: 2026; cv-spac-simple-multi-ddtsto