

Architect By Design: Digital Enterprise Solutions



Architect By Design

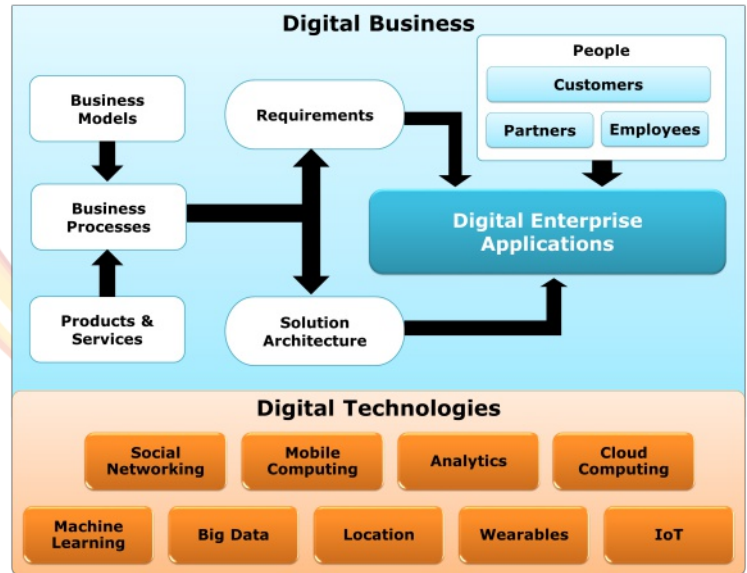


uDASH Information Technologies

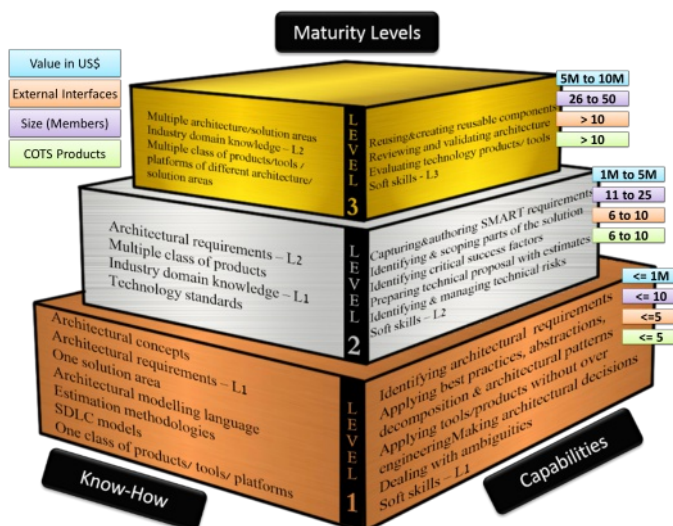
Architect By Design: Digital Enterprise Solutions

An Architect Certification Program: Developed by, Designed for and Delivered by Architects

In digital industry economy, it has become imperative to exploit technologies to remain competitive. Successful enterprises are creating new business models using digital technologies (including Social, Mobility, Analytics and Cloud, aka **SMAC**). Social media and Mobile devices has provided businesses with new ways to reach and interact with customers and vice versa. Analytics allow enterprises to understand how, when and where people consume certain goods and services. Cloud technologies allow handling challenges of time to market and capacity management with agility. While each technology impacts a business in a unique way, the convergence of SMAC is proving to be a disruptive force. Digital Transformation of an organization requires Digital Enterprise Applications. Solution architects play a critical role in realizing these applications and manoeuvring your organization towards a Digital Enterprise.



Defining solution Architecture is a mix of engineering and art. It is not only about acquiring theoretical knowledge but also about appropriate application of that knowledge. Mentoring & handholding by experienced architects is essential for accelerated learning. Good architects, willing to mentor and coach, are hard to find, both inside & outside your organization. You need a comprehensive, fast track and proven process to groom architects.



Build your elite team of Digital Enterprise Solution Architects by Design rather than by Accident. Enhance your readiness to face challenges of a digital enterprise.

Adapt uDASH's proven **Capability Oriented Maturity Model for Architects & Deliverables (COMMAND)** framework that defines capabilities of various levels of architects in terms of observable & specific outputs, activities and projects' size and complexity.

What is Architect by Design: Digital Enterprise Solutions (ABD:DES)?

ABD:DES is an architect certificate program by uDASH, built on COMMAND framework. It provides a platform, foundation and guidance necessary for fast tracking designers to grow as digital solution architects. It is a Learning Methodology with a mix of architectural concepts, product agnostic and product specific topics. This program covers end to end process from readiness assessment to certification. The following figure shows the steps and the structure of the program. Duration and structure of each step can be customized for larger audience based on your organizations' specific needs.



Readiness Assessment step involves participants submitting a presentation as per a specified template and having a short discussion with uDASH's Mentors. Only Promising and Potential Architects likely to benefit from the ABD:DES program are encouraged to join the next step.

I@Class Sessions are highly interactive presentations, with about 50% of the time spent on examples, exercises and white boarding sessions.

I@Architect Cases involves participants preparing an architecture document for a digital business scenario, under the guidance of our mentors. Participants need to work as per a defined work plan. Weekly review discussions are held to ensure progress & provide necessary mentoring.

Certification will be based on individually authored architecture for distinct digital business scenarios. An expert panel will have capability-wise discussion with participants. Those meeting the threshold will be Certified Digital Enterprise Solutions Architects in your organization.

Module	Key Topics
Part-I Foundation (for Aspiring Architects)	
Software Architectural Concepts	Black-box model, Vocabulary of Software Architecture, Architectural Views, Characteristics of Good Architecture (C3SEAD)
Architectural Concepts - Digital Business Solutions	SMAC (Social media, Mobility, Analytics, Cloud computing) concepts (Relevance of Social media apps in an enterprise, multi-tenancy, Virtual Machines, IaaS, PaaS, SaaS and BPaaS)
Enterprise Value of Architects	Types of Architects, Responsibilities & Capabilities of Architects
Service Oriented Enterprise Systems	Evolution of Architecture, Classification of services, Enterprise vs Project SOA
JEE – An Architect's Perspective	Types of JEE Components, Interfaces to Classes of Products, Ready to use Components & Application Servers
Architecting using COTS Products	Classes of Products, ESB, Payment gateway, MoM, RDBMS, Web CMS, Portal
Tools for Making Architectural Decisions	Documentation model, Feature comparison, TCO, ROI, Build vs Buy
Part-II Architecting Digital Solutions (for Aspiring & Junior Architects)	
Attribute based Architectural Requirements	Attribute based model, SMART ² checklist, Q2R classification
Architecture Definition Methodology	ADM for Digital Business Solutions, Definition vs Modelling vs Documentation
Primary Architectural Views (Level One, Presentation, Integration, Data, Security)	Architectural Concepts & Classes of Products, Why, What & How to Document, Who, Where and for Whom? White boarding sessions
Architecting for High Performance	Realizing Availability, Scalability, Responsiveness, DR, UX, Reliability
Advanced architectural views	Mobile apps, Social media integration, Deployment on IaaS

Who should attend?

Aspiring Architects and Junior Architects

- * IT experience of 4+ years, including 2+ years as a designer
- * Experience in any of the programming languages
- * Designer experience in JEE and SOA is highly desirable



During Readiness Assessment, Candidates demonstrating a knowledge of JEE & SOA architectural concepts will be encouraged to skip the Foundation part of I@Classes.

Dr. Uday Bhaskar Vemulapati, Chief Mentor

Ph.D. in Computer Science from Penn State University, U.S.A.
B.Tech. from I.I.T. Madras, India



Uday brings 30+ years of experience in a unique combination of academic, industry & research areas to the delivery of the program. His ability to simplify & demystify the technological jargons comes from a decade-long teaching experience in USA. His insights into real-life challenges in managing technology complexity come from his interactions with IT leaders in Fortune 500 companies. He published 20+ papers in International journals & conferences. As a faculty member at the University of Central Florida's School of Computer Science, he designed & taught courses at the Masters & Ph.D. level as well as at final year undergraduate level.

During his 15 years at Wipro, he was instrumental in building a credible architecture capability, from Application Architects to Solution Architects to Enterprise Architects. When Wipro launched its Consulting Brand "Wipro Consulting Services" (WCS), in 2008, he was the first Global Practice Head to take the Architecture Consulting to Global Customers, competing with the Big Four. In his last role, as the Head of Architecture Council, he was responsible for creating, enhancing and governing architecture capability across Wipro.

Architects *rule* the World



Namdhari Shyamsunder, Chief Architect

M.Tech. in Computer Science & Engineering from I.I.T., Kanpur, India
B.E. in CSE from College of Engineering, Osmania University, Hyderabad, India



Shyam has about 25 years of IT experience, including 20+ years as an Enterprise Architect, IT Advisor & Solution Architect. He has architected a number of complex enterprise class solutions for global customers. He has led number of Consulting/Advisory engagements, providing architectural centric solutions. As an architecture competency head and a practice head, he provided technology leadership to architecture teams. His areas of expertise and interests

are Software Architecture, Enterprise Architecture, Multi-channel applications, JEE and Unix platforms. Shyam has designed, organized, institutionalized and governed multiple certification and enablement programs for architects. He has rich experience in conducting architecture focussed enablement programs and mentoring architects. His sessions provide an enjoyable learning experience for the participants. He shares his architecting experiences, covering knowledge, art and engineering sides of software architecture.