Mike Nelson

Cloud Architect
Technical Marketing Engineer @ Rubrik

@nelmedia
mike@geektweakers.com

Microsoft MVP - CDM
Microsoft Azure Advisor
Citrix CTP
VMware vExpert

Architecture in a Nutshell

"As an Architect, you design for the present with an awareness of the past, for a future which is essentially unknown." - *Norman Foster*

"Architecture is the art of determining if one thing should be two things or just one thing." - *Jeffrey Snover*

"An architect should live for 150 years, since they have to learn everything in the first 75." - *unknown*

An **IT architect** is an individual that architects and designs information technology solutions and services for organizations. They posses a strong business and IT background to **architect** software, hardware, network or any IT solution that gives the best results to the business. - *Techopedia*

Persona's

Enterprise Architect

Solutions Architect

Data Architect

Infrastructure Architect

Cloud Architect

Security Architect

Application Architect

Integration Architect

<%Role%> Architect

How Does One Become an IT Architect?

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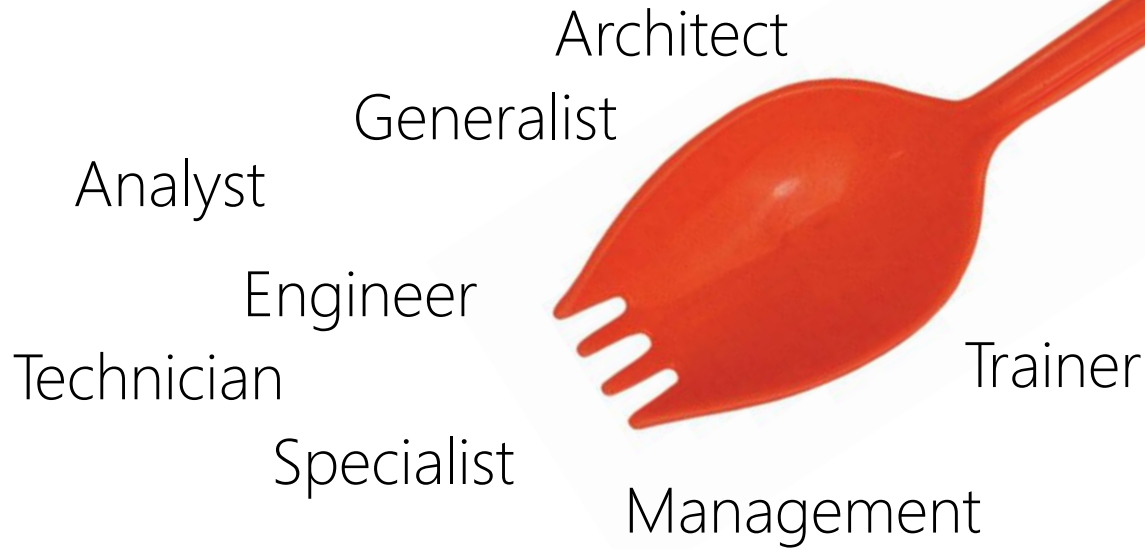
IT Architecture Frameworks

TOGAF

- Framework for Enterprise Architecture (EA)
- Originally developed by the US government in the 80s, now owned by the Open Group
- De facto EA standard in the market
- A description of processes, techniques and products for EA
- A generic framework that can be tailored to the situation

Architecture Capability Framework (Part VII)

Architecture Development Method (Part II)

ADM Guidelines & Techniques (Part III)

Architecture Content Framework (Part IV)

Enterprise Continuum & Tools (Part V)

TOGAF Reference Models (Part VI)

LEAD
MEGAF
SABSA
TRAK
EABOK
GERAM
GEAM
RM-ODP
GEA
… and so on

Spork in the Road

Architect
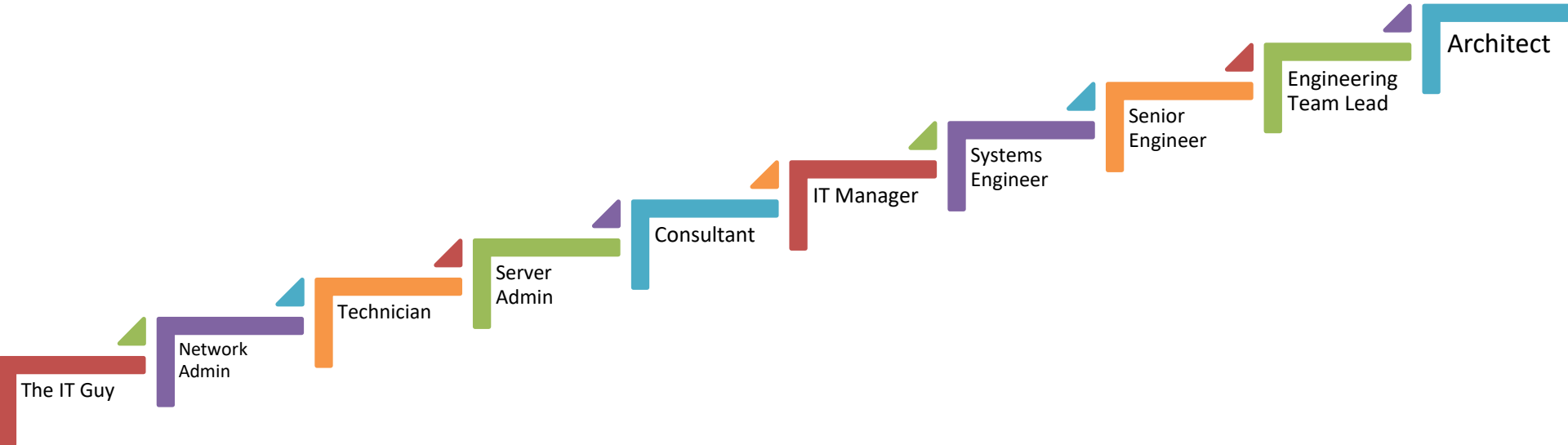Generalist
Analyst
Engineer
Technician
Specialist
Trainer
Management

Or do something else...

Mike's Journey Through IT

"The job belongs to them. The career belongs to you."

The IT Guy

Network Admin

Technician

Server Admin

Consultant

IT Manager

Systems Engineer

Senior Engineer

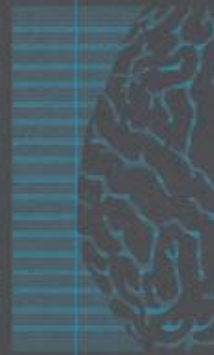Engineering Team Lead

Architect

Architects & Engineers

Although architects and engineers perform many parallel functions that contribute to the design and implementation of buildings and structures, there are also key distinctions between the two disciplines. Understanding the traits that complement each role can help students determine which degree program nurtures their passion.

CHARACTER TRAITS

Architects and engineers often approach projects from very different perspectives. While architects rely on creativity and the ability to think theoretically, engineers use a mathematical mindset. From constructor to designer, there is a relationship between personality traits and work duties for architects and engineers.

THE ENGINEER

THE ARCHITECT

LEFT BRAIN
PRECISE
MATHEMATICAL
SYSTEM
BUILDER

RIGHT BRAIN
ARTISTIC
CREATIVE
THEORETICAL
THINKER

Image credit: BCSW

An architect and an engineer are at a bar having a beer.
The architect holds up his half a mug and asks the engineer
"Half full or half empty? I see it as half full with the
opportunity to become full."
The engineer ponders a bit before she answers.
"I see a liquid containment device twice as big as it needs
to be."

Radia Perlman
The Mother of the Internet

Ms. Perlman told the perfect story about how engineers come up with solutions before understanding the problem:

"When my son was 3, he came to me crying 'My hand! My hand!'

I started kissing it. *mwah* *mwah* *mwah* 'Tell me what happened...'

'I got pee on it.'"

So, you're now an "Expert"?

"An expert is not someone that gives you the answer, it is someone that asks you the right question." - *Eli Goldratt*

Most "true" architects are very humble and not big self-promoters. Why is that?

They realized at some point that they have put themselves in never-ending continuous learning cycles. They are not, and should not, be the smartest person in the room, let alone in the building. Also, there is a sense of philanthropy that is infused into most* Architects over time. Giving back to the community and the profession becomes a mantra, not a burden.

Things to Learn and Teach

Pride & Humility
Tact
Self-Efficiency
Organization
Collaboration
People & Personalities

Never stop wanting to learn

"Knowledge isn't what you learn, but rather what you cannot forget."

Always Have a Wide Angle Lens
Always Challenge & Ask to be Challenged
Always be Curious. There is no box.

Thank You!
@nelmedia
mike@geektweakers.com