How do **YOU** Learn?

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@notjustcad

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AUTODESK. UNIVERSITY

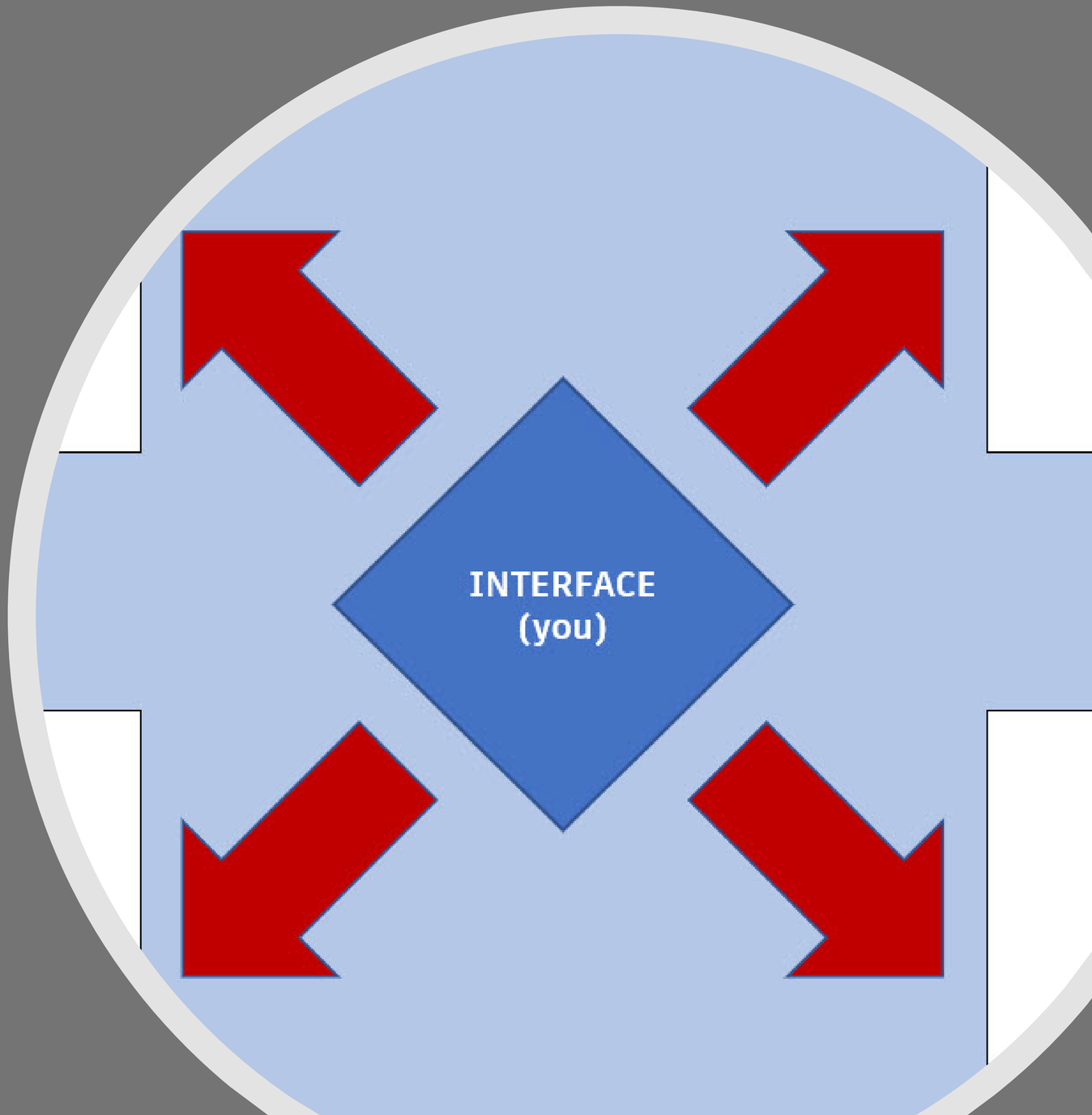
About the speaker

Shaun Bryant (who exactly is this guy?)

- Owner/lead consultant – **CADFMconsultants**
- Prolific blogger – owner of the blog, **Not Just CAD!**
- Writer – AUGIWorld, Cadalyst, Redshift
- Content Author – **LinkedIn Learning** (previously Lynda.com)
- **AutoCAD** & **Revit** consultant and trainer
- **30 years** of AutoCAD experience
- **9 years** of Revit experience
- **Singer/Songwriter** – first album released on iTunes – June 2012
- **Second** album being written for release in 2019
- Has been known to sound like the **Geico Gecko**

KEYWORD:
Interface

You are the **INTERFACE**
of **ALL** your learning



Your learning objectives for today

OBJECTIVE 1

Consider a learning path and how to manage it

OBJECTIVE 2

Learn how to record your learning effectively for later knowledge re-use

OBJECTIVE 3

Learn how to apply your learned knowledge in the workplace

OBJECTIVE 4

Gain new knowledge that you could use to obtain professional qualifications, such as Autodesk Certification

Introduction

How do YOU learn?

The whole idea of this class is about how **YOU** learn. We all learn differently, and we all implement that learning in different ways. We all learn using different mediums; people, books, videos (LinkedIn Learning, for example), YouTube, even the good old pen and paper and many, many more.

I will introduce you to the **INTERFACE** of learning.

Your starter for ten……

……do you know what an **INTERFACE** is?

INTERFACE (courtesy of Wikipedia)

Interface (computing)

*In computing, an **interface** is a shared boundary across which two or more separate components of a computer system exchange information. The exchange can be between software, computer hardware, peripheral devices, humans and combinations of these. Some computer hardware devices, such as a touchscreen, can both send and receive data through the interface, while others such as a mouse or microphone may only provide an interface to send data to a given system.*

User interface (UI)

*The **user interface** (**UI**), in the industrial design field of human–computer interaction, is the space where interactions between humans and machines occur. The goal of this interaction is to allow effective operation and control of the machine from the human end, whilst the machine simultaneously feeds back information that aids the operators' decision-making process. Examples of this broad concept of user interfaces include the interactive aspects of computer operating systems, hand tools, heavy machinery operator controls, and process controls. The design considerations applicable when creating user interfaces are related to or involve such disciplines as ergonomics and psychology.*

Here’s the kicker….

YOU are the INTERFACE

Objective 1

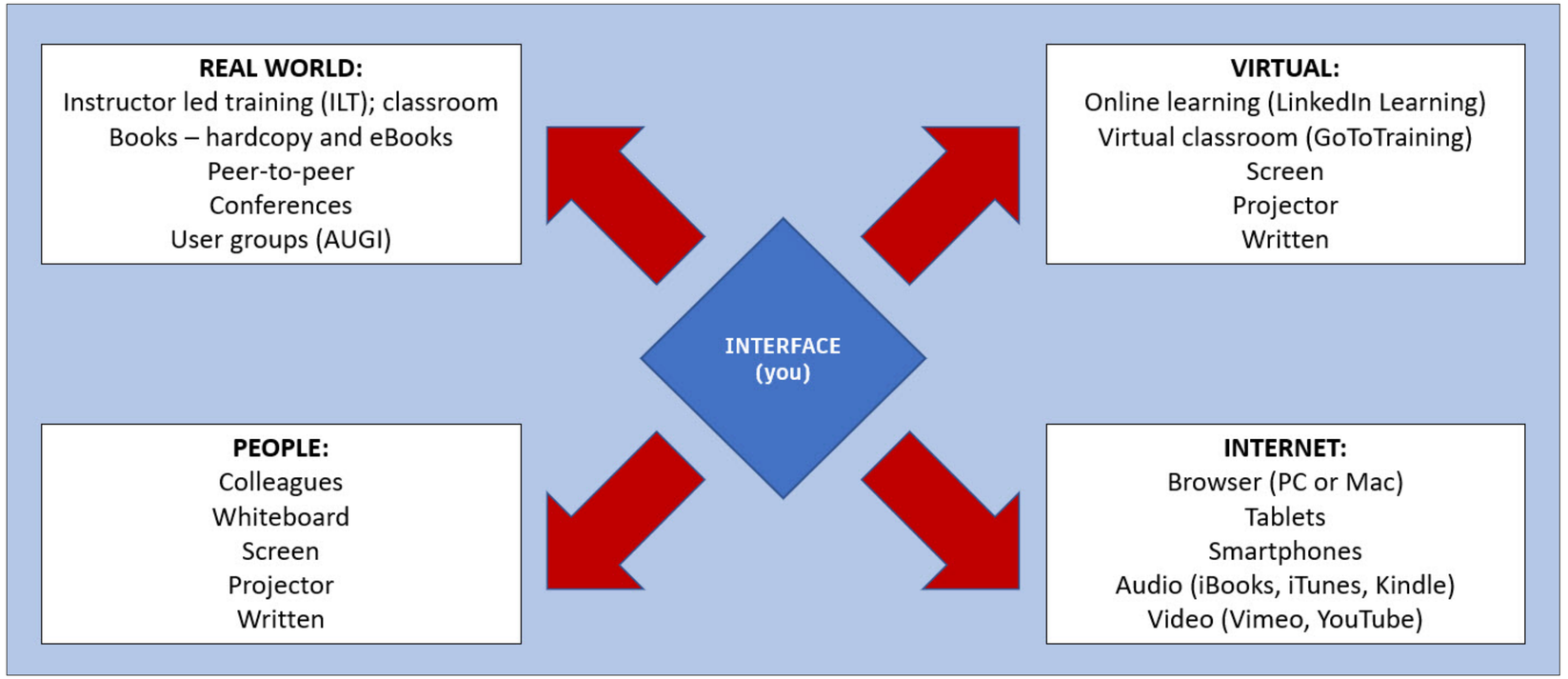
Considering a learning path and how to manage it

Objective 1 (cont'd….)

Considering a learning path and how to manage it

Finding YOUR path

- REAL WORLD
- PEOPLE
- WRITTEN
- VIRTUAL



Objective 1 (cont'd….)

Considering a learning path and how to manage it

REAL WORLD

- Classroom (ILT)
- Books
  - Hardcopy
  - eBooks
- Peer-to-peer
- Conferences (ya think?)
- User Groups (AUGI)

Objective 1 (cont'd….)

Considering a learning path and how to manage it

PEOPLE

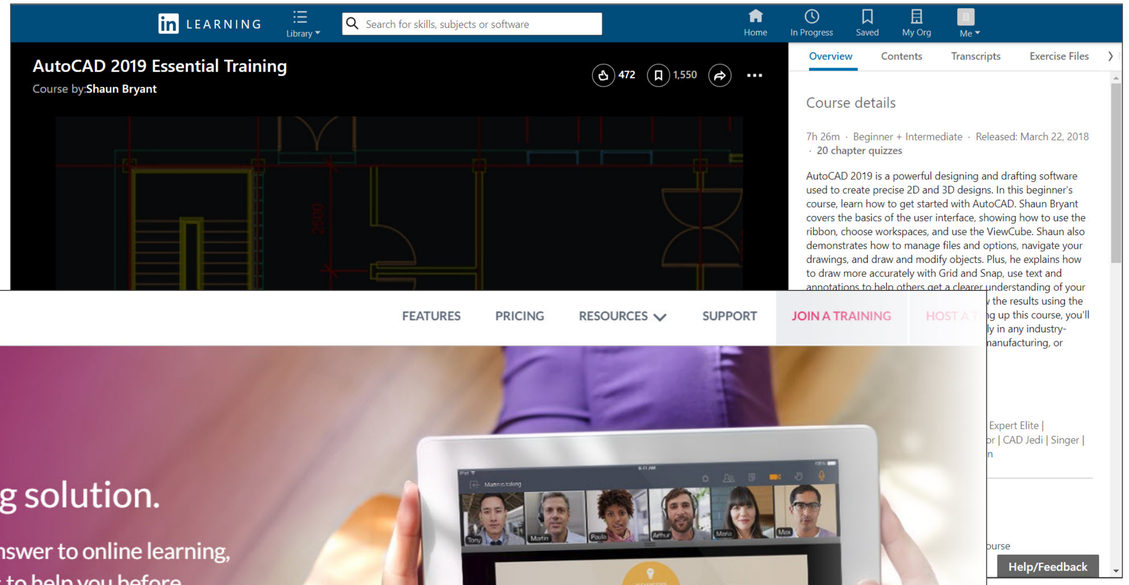
- Colleagues – 'on the job' training, peer-to-peer
- Whiteboard – one in every office in the world
- Screen – sitting around the screen, peer-to-peer
- Projector – 'projecting' ideas, brainstorming, **LEARNING!**
- Written – personal favorite – **MUSCLE MEMORY!**

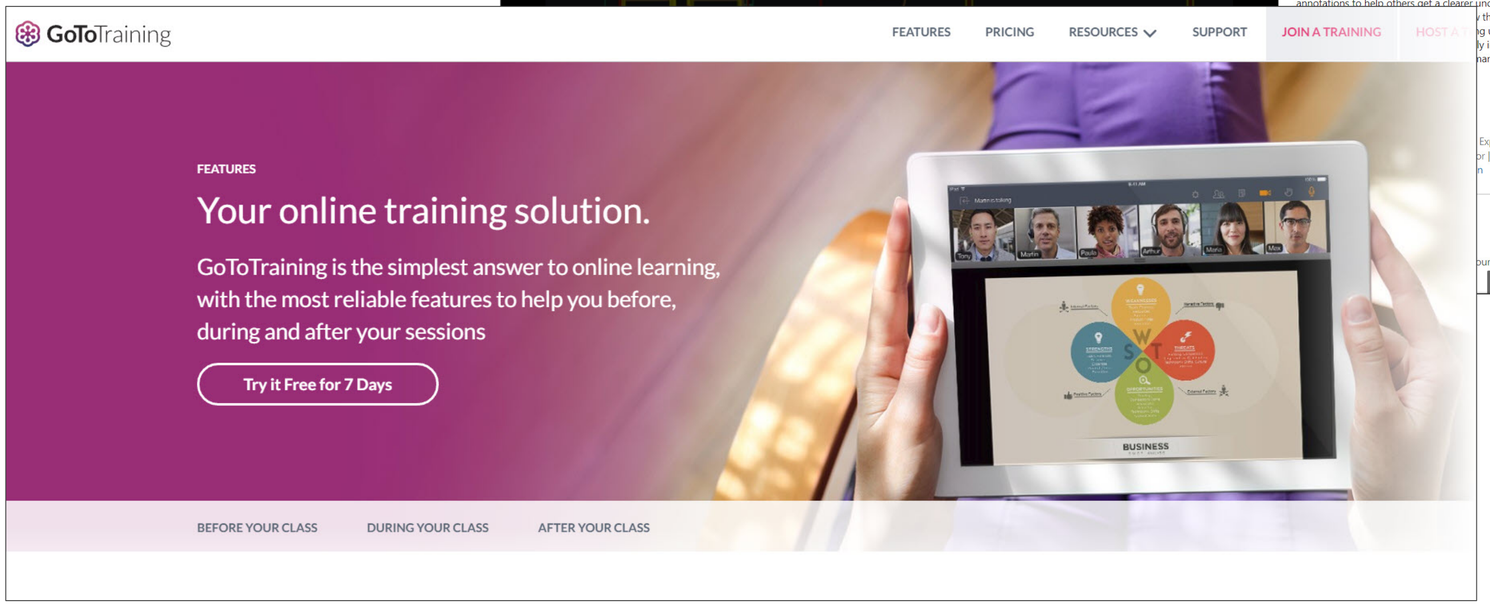
Objective 1 (cont'd….)

Considering a learning path and how to manage it

VIRTUAL

- Online learning (LinkedIn Learning)
- Virtual classroom (GoToTraining)





Objective 1 (cont'd….)

Considering a learning path and how to manage it

VIRTUAL

- Screen
- Projector

UK-based Autodesk Authorized training Center (ATC)

- Internet
- Webcams in classroom
- Dedicated instructor terminal

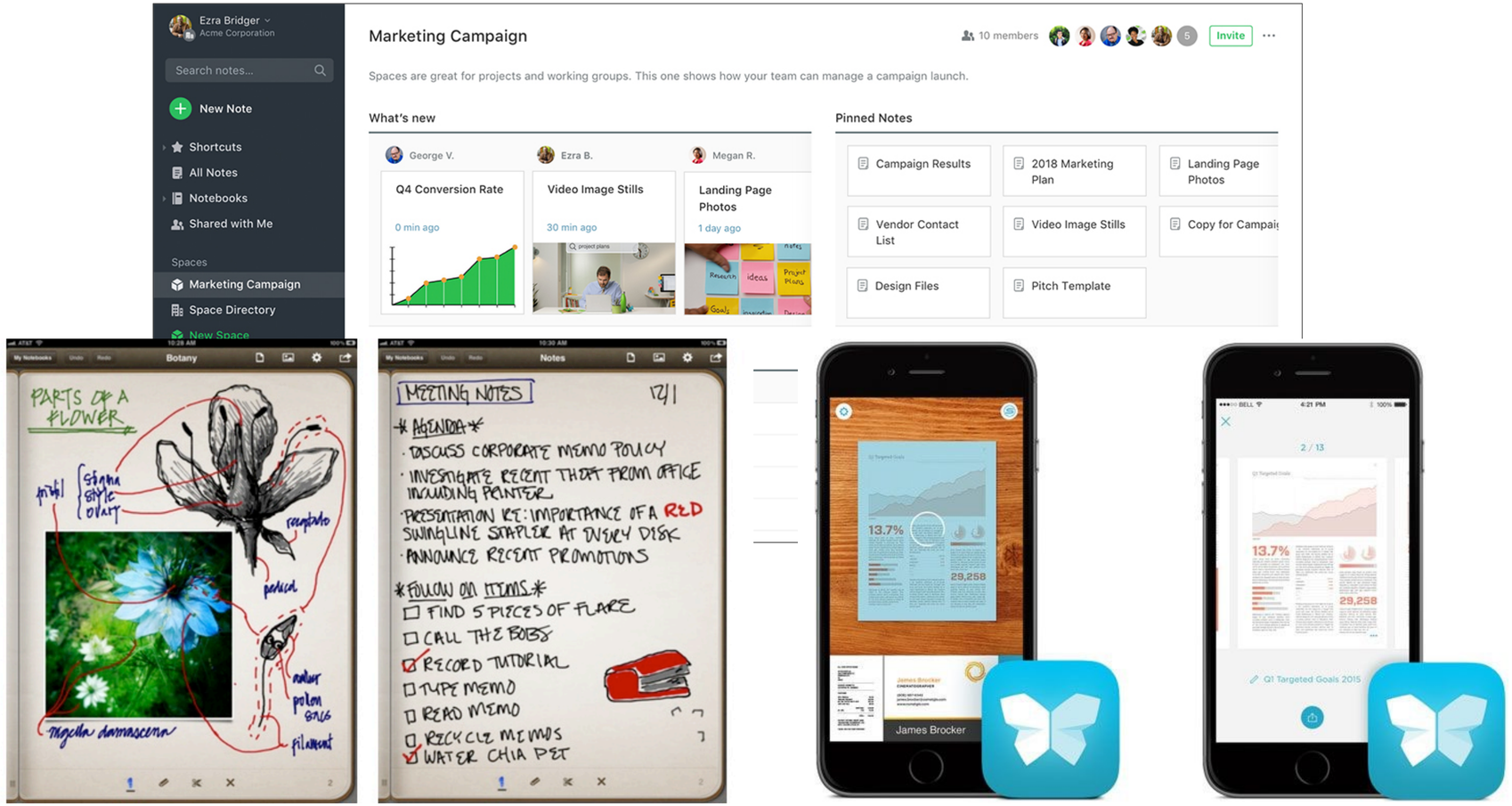
ATTEND FROM ANYWHERE (AFA)

Objective 1 (cont'd….)

Considering a learning path and how to manage it

VIRTUAL

- Written
  - Evernote
  - Scannable
  - Penultimate
- Stylus
  - Adonit
  - Apple Pencil



Objective 1 (cont'd….)

Considering a learning path and how to manage it

INTERNET

- Browser (PC or Mac) – Google, Firefox, Safari, Opera
- Tablets – iPad, Surface, Samsung
- Smartphones – iPhone, Samsung….the list goes on….
- Audio (iTunes, iBooks, Kindle) - listening
- Video (Vimeo, YouTube) - viewing

Objective 2

Learn how to record your learning effectively for later knowledge re-use

SYNTAX

Wikipedia defines syntax as the following: -

- *In linguistics, **syntax** is the set of rules, principles, and processes that govern the structure of sentences in each language, usually including word order.*

When I create a text style in AutoCAD, I use the following syntax: -

- Text style name = ***Name_SPACE_height.***

So, I might have a text style called ***Notes_LAYOUT_3.5***. This means that I use that text style for notes in the layout tabs, and it is a preset height of 3.5(mm).

Note to self….

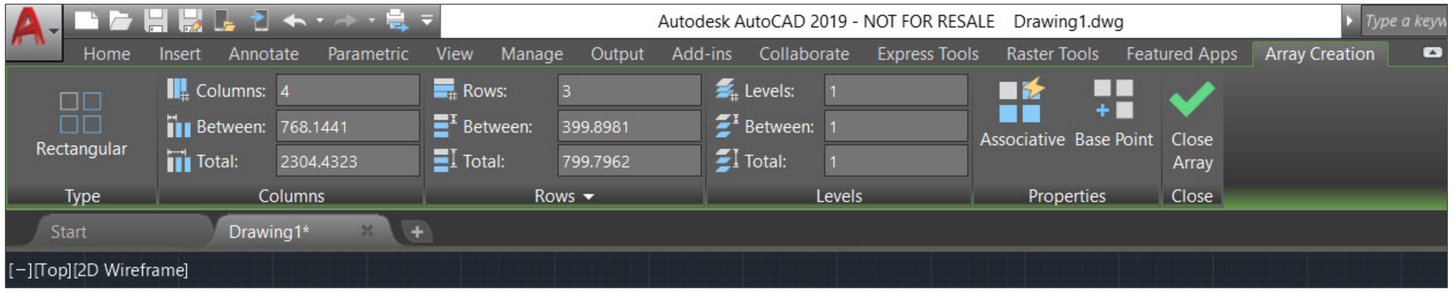
Use SYNTAX for recording ALL your knowledge

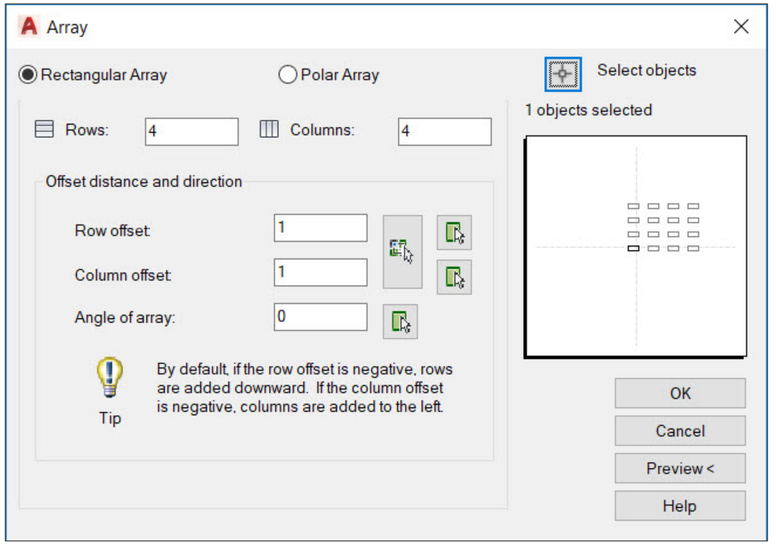
Objective 2 (cont'd….)

Learn how to record your learning effectively for later knowledge re-use

DATE & TIME

- **WHEN** you learnt
- **WHAT** you learnt
  - ARRAY
  - ARRAYCLASSIC



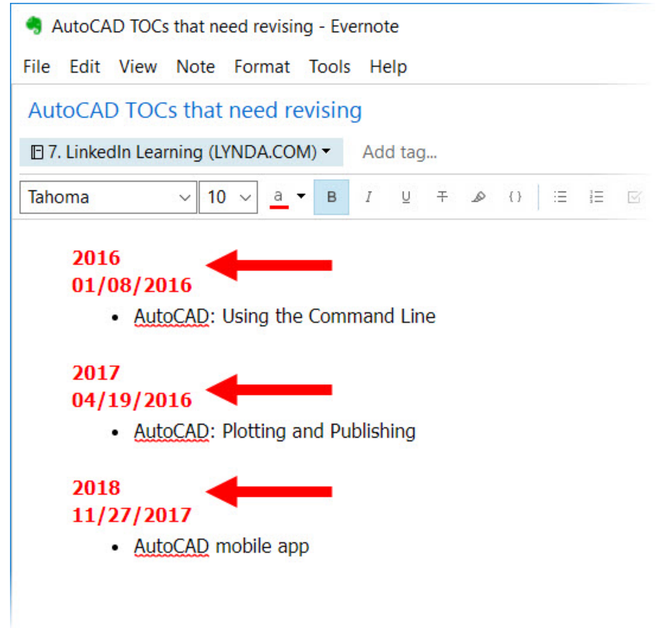


Objective 2 (cont'd….)

Learn how to record your learning effectively for later knowledge re-use

SOFTWARE VERSION

- **CAD journeyman –** 'Can you start Monday morning?'
- Older/newer versions of AutoCAD – differences in interface
- Recording **WHAT** you learnt by version
  - SYNTAX
  - Journals - Evernote



Objective 2 (cont'd….)

Learn how to record your learning effectively for later knowledge re-use

USING STORAGE

It's simple…..

….there will **NEVER** be enough storage

Objective 2 (cont'd….)

Learn how to record your learning effectively for later knowledge re-use

USING STORAGE

- Hardcopy – journals/bookshelves
- Digital/electronic – portable HDDs
- The cloud – Autodesk Drive, Drop box, Box

Objective 3

Learn how to apply your learned knowledge in the workplace

PERCEPTION OF KNOWLEDGE

- **Peter** – after my AutoCAD training
- Perception of what could be done
- Efficiency
- Productivity
- Return On Investment (ROI)
- Training of others with knowledge gained

Objective 3 (cont'd….)

Learn how to apply your learned knowledge in the workplace

PERCEPTION

- Efficiency – learning & knowledge – **TIPS & TRICKS**
- Accuracy – Olympian marksman – **REPETITION AIDS RETENTION**
- Accuracy – Joe Bonamassa – **MUSCLE MEMORY**
- **Value (bottom line) – efficiency = ROI**

Objective 3 (cont'd….)

Learn how to apply your learned knowledge in the workplace

APPLICATION

- Implementation – hours spent
- Standards - improvement
- **ROI – Return On Investment**

AEC (Architecture Engineering and Construction) standards [edit]

CAD layer standards [edit]

Most common:

- *BS 1192*, which relies heavily on the Code of Procedure for the Construction Industry
- *AIA Cad Layer Guidelines*, 2nd edition (1997), has a great usage in the USA;
- *ISO 13567-1/3*, International standard, common in Northern Europe;
- *AEC (UK)*, an adaptation of BS-1192 based on Uniclass.
- *A/E/C CAD Standard, Tri-service (USACE/Air Force/NAVFAC) CAD standard created/maintained by the CAD/BIM Technology Center for Facilities, Infrastructure, and Environment..*[1]
- *SIA 2014* (1996), Swiss standard for engineers and architects, based on ISO 13567.
- *ÖNORM A 6240-4* (2012), Austrian standard for digital documentation in technical drawings, based on ISO 13567.

Samples of standardised layers:

A-B374--E- (ISO13567: agent Architect, element Roof window in SfB, presentation graphic element);
A-37420-T2N01B113B23pro (ISO13567: agent Architect, element Roof Window in SfB, presentation Text#2, New part, floor 01, block B1, phase 1, projection 3D, scale 1:5(B), work package 23 and user definition "pro");
A-G25---D-R (ISO13567: agent Architect, element wall in Uniclass, presentation dimensions, status Existing to be removed);
A-G251-G-WallExtl-Fwd (AEC(UK): agent Architect, element External Wall in Uniclass, presentation graphic element, user definition "WallExtl" and view Forward);
A210_M_ExtWall (BS1192: agent Architect, element External Wall in SfB, presentation model, user definition "ExtWall");
A-E04---E- (ISO13567 SIA 2014: agent Architect, element Stair in SIA classification, presentation graphic element);
A-WALL-FULL (AIA: agent Architect, element Wall, Full height).

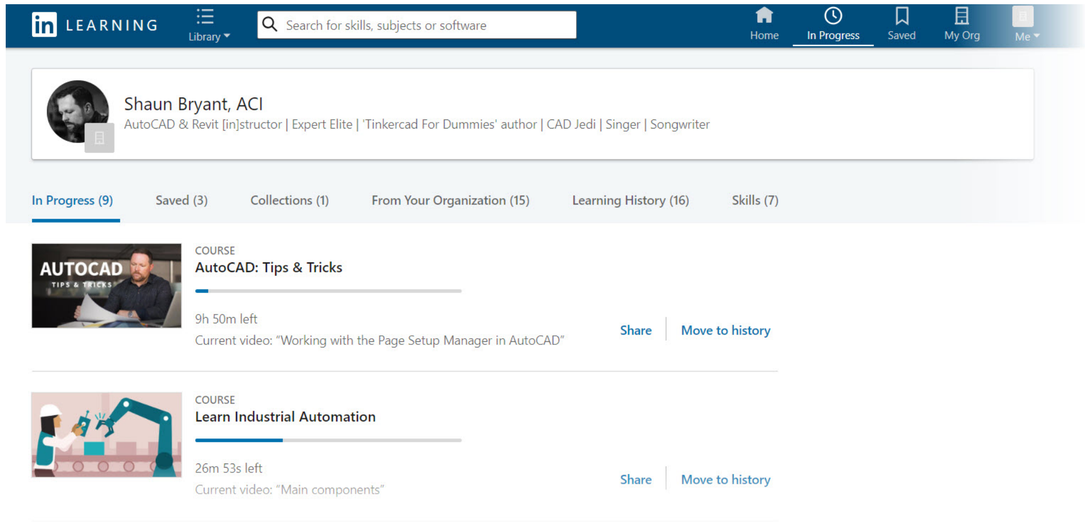
Objective 4

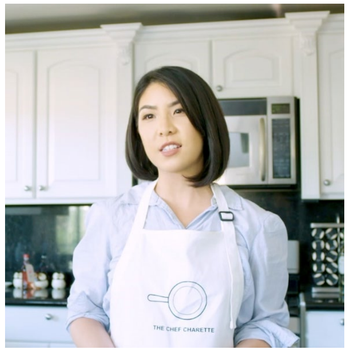
Gain new knowledge that you could use to obtain professional qualifications, such as Autodesk Certification

NEW KNOWLEDGE

- Exam technique
  - Practice
  - GMetrix
  - **CONFIDENCE**
- Time management
  - LinkedIn Learning (Cert Prep)
  - **ONLINE**

G METRIX
Skills Management System



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STORY




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Thank you, audience!

Any questions?

Thank you for your time!

Please remember to
evaluate this class
AS196992
on the AU app!

Stay in touch!

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TAKEAWAY TIP:

Use the LinkedIn phone app to scan your LinkedIn QR codes.
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