AUTODESK UNIVERSITY

AS500064
Understanding the new AutoCAD: ONE AutoCAD with SEVEN toolsets

Shaun ‘CADjedi’ Bryant

Director - CADFMconsultants | @notjustcad

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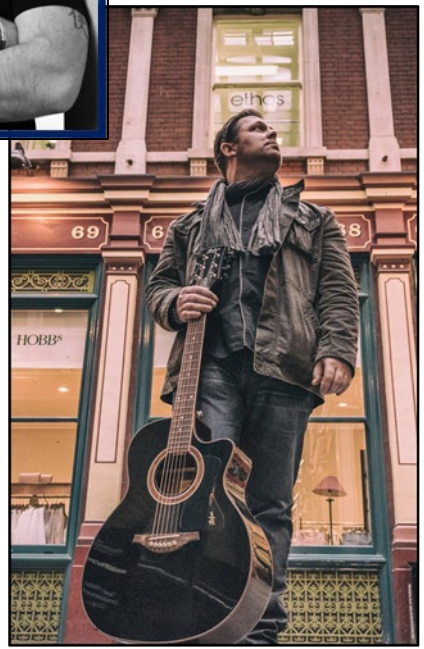
Shaun ‘CADjedi’ Bryant (who is this guy anyway?)

- Owner/lead consultant – **CADFMconsultants**
- **Blog:** *Not Just CAD!* | **LinkedIn newsletter:** *Not Just CAD!*
- Writer – AEC Magazine, Cadalyst, Redshift
- Content Author – **LinkedIn Learning** (previously Lynda.com)
- Autodesk Expert Elite
- Autodesk Certified Instructor (ACI)
- Autodesk Certified Professional (ACP) – AutoCAD & Revit
- Subject Matter Expert (SME) – **Autodesk**, **Dell**, **AMD**, and **Certiport**
- Veteran Autodesk University (AU) speaker (since AU 2006)
- AU Speaker Mentor
- **33+** years of **AutoCAD** experience
- **12+** years of **Revit** experience
- Singer/songwriter – music on iTunes & other outlets –
- 2nd album ‘under construction’
- Has been known to sound like the **Geico Gecko**
- **Ricky Gervais** - stunt double



A bit of background from the blog….

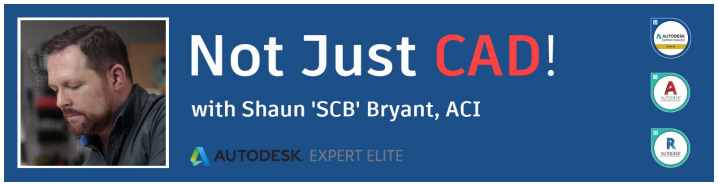
The blog series about **One AutoCAD** on the blog, **Not Just CAD!**

I often blog about all things CAD and sometimes other stuff, and back in March 2019, I wrote a series of One AutoCAD blogs, the first one being all about the original concept of the One AutoCAD release.

The blog does talk about there being (originally) ten elements of the One AutoCAD, **which include the AutoCAD web and mobile apps.**

The One AutoCAD is now officially known as
One AutoCAD with SEVEN specialized toolsets.

https://cadfmconsult.com/autocad-2019-there-can-be-only-one



CADFM consultants

Why are you here?

What do you hope to learn?

Online Learning

This AU class is loosely based around my LinkedIn Learning courses.
https://www.linkedin.com/learning

AUTODESK® **AUTOCAD®** 2022

KEYWORDS:
AutoCAD.
One.
One Autocad.

SEVEN AutoCAD toolsets.
ONE subscription
MAKE ANYTHING.

AUTODESK.

Objective 1

Discover the new AutoCAD including specialized toolsets subscription

“There can be only one”

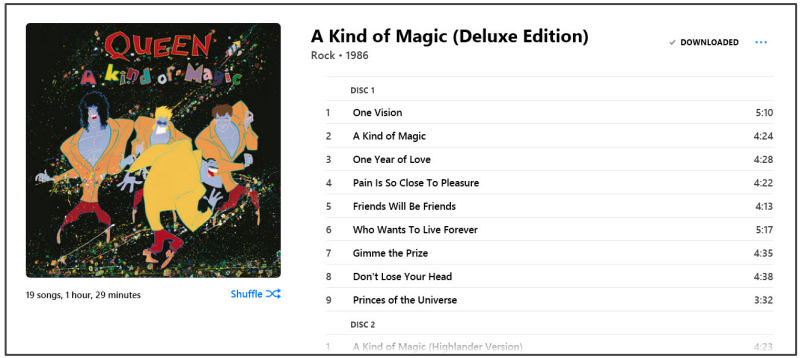
The epic movie **Highlander**:

The Kurgan – During the battle between Clan MacLeod and Clan Fraser

The One AutoCAD subscription

- Highlander – “There can be only **ONE**”
- The Quickening
- Connor MacLeod of the clan MacLeod
- And what a soundtrack, eh?

One AutoCAD?
There can be only **ONE**?



Yes, the One AutoCAD subscription (with SEVEN toolsets)!

Work faster with SEVEN toolsets

One AutoCAD
A twist on that Highlander quote:

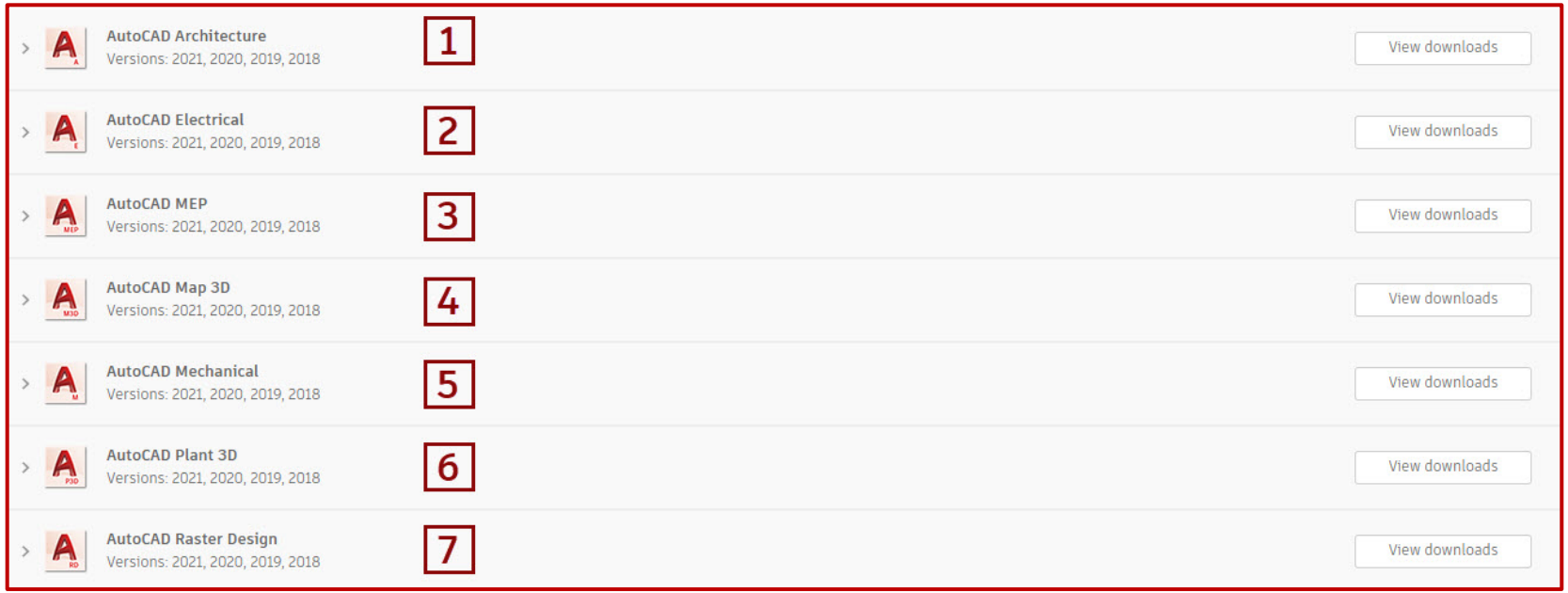
*"There can be only **SEVEN!**"*

ONE subscription including….

- **Architecture** toolset
- **Electrical** toolset
- **Mechanical** toolset
- **MEP** toolset
- **Map 3D** toolset
- **Raster Design** toolset
- **Plant 3D** toolset

Your Autodesk account portal

One AutoCAD – There can be only **SEVEN** – available for install



Utilizing your One AutoCAD

One AutoCAD

- There can be only **SEVEN**
- A **TOOLSET** for use when needed but still separate applications
- No need to install **ALL** seven!

So, there you go.

There can be only SEVEN, not just one like in Highlander.

SEVEN toolsets, plus AutoCAD.

Available as ONE subscription =

One AutoCAD.

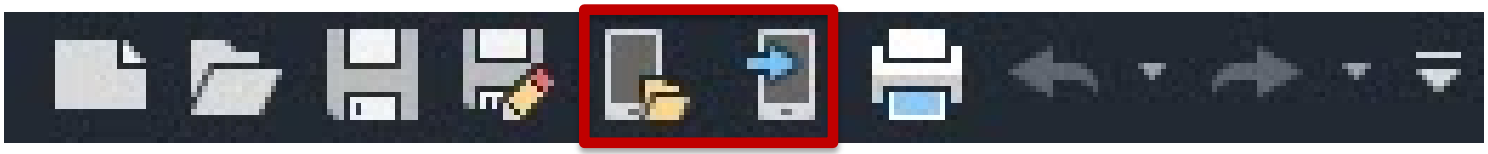
Objective 2

Learn how to work with the AutoCAD specialized toolsets and how to deploy them to your AutoCAD team

Working with One AutoCAD

(**AutoCAD web** and **AutoCAD mobile** apps)

- Great improvements to both apps – both in interface and accessibility
- Save to Web & Mobile (**SAVETOWEBMOBILE**)
- Open from Web & Mobile (**OPENFROMWEBMOBILE**)
- Accessible once signed in once in AutoCAD
- Cloud based **Web & Mobile** folders + other cloud-based providers
- Available with **One AutoCAD** (& also the **AutoCAD LT** subscription)



The AutoCAD web app

TRACES – Allows for markup and collaboration in the cloud

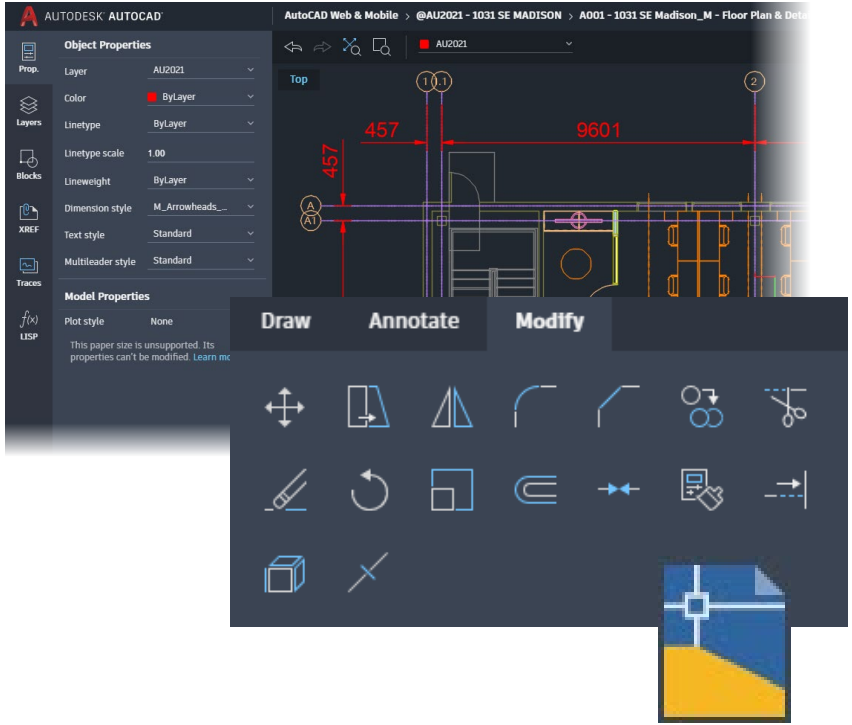
LISP – LISP routines are now supported in the cloud

XREFS - Improves DWG crossover for multi-user collaboration on multiple DWGs

SELECTION – Window & Crossing – the same old AutoCAD with core technology

HARDWARE - Now up to the job with support on the iPad Pro, Microsoft Surface etc

ICONOLOGY - The same as it ever was – legacy icons for commands and DWG files



The AutoCAD mobile app

TRACES – Allows for markup and collaboration in the cloud

INTERFACE – Utilizes a tablet-based gesture interface, combined with legacy commands

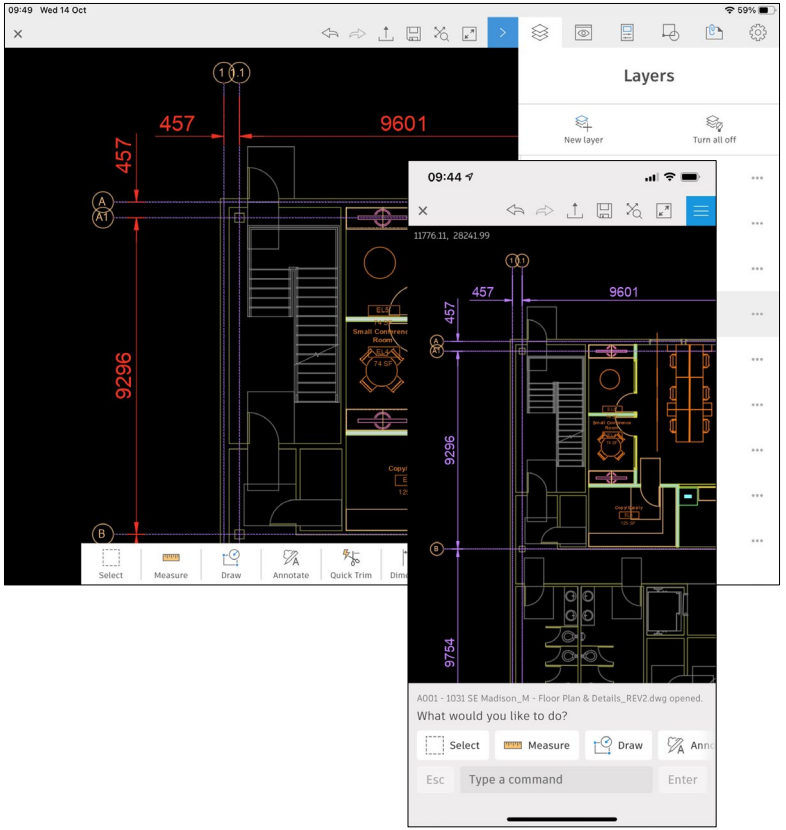
ACCESS - Easy file access when ‘on the road utilizing the AutoCAD Web & Mobile folders and other cloud providers

ICONOLOGY - The same as it ever was – legacy icons for commands and DWG files

HARDWARE - Now up to the job with support on the iPad Pro, Microsoft Surface etc

PORTABLE - Totally portable and easy to use on any smartphone or tablet with pencil/stylus

PART OF THE FAMILY - The AutoCAD mobile app is part of both the One AutoCAD and AutoCAD LT subscriptions



TAKEAWAY TIP!!

Work with the AutoCAD app that most suits your device

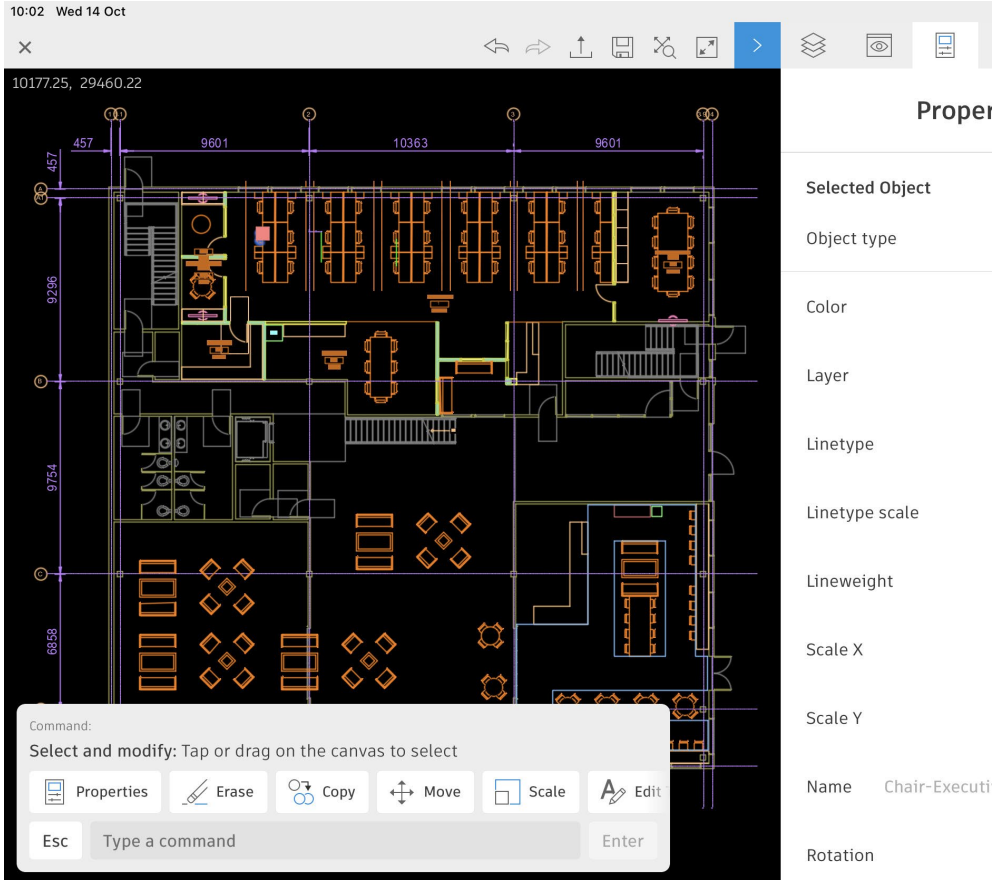
Typical examples: -

LARGER SCREEN - iPad Pro

- ***AutoCAD web app***, as a browser works well with that sized device

SMALLER SCREEN – iPhone

- ***AutoCAD mobile app***, as it is designed for smaller devices



Deploying the toolsets

One AutoCAD + SEVEN specialized toolsets

- No need to have them **ALL** installed!!
- The toolsets provide a ‘Swiss Army knife’ for all AutoCAD disciplines
- **ARCHITECTURE** = Architectural toolset
- **MECHANICAL** = Mechanical toolset
- All the ‘blades’ (toolsets) in one place
- **ONE** subscription
- **ONE** deployment = **AutoCAD + toolset**
- Less download time
- Less install time

Deploying the toolsets

INSTALLATION

- **Normal** installation – **one** application at a time
- **AutoCAD Raster Design** – provides the Raster Tools tab in the ribbon
- Copy and pasting across toolsets
- If vanilla AutoCAD is installed, use **Install Now** option for other toolsets
- Great article by **Marcus O'Brien** on the official AutoCAD blog!
- **ALWAYS** ask – "Do you **REALLY** need **ALL** of the toolsets installed?"

Objective 3

Learn how to develop and implement a workflow around the AutoCAD specialized toolsets

Implement a toolset workflow

Conversion of DWG files to the appropriate toolset

- A change in workflow and process
- **AutoCAD Electrical** toolset – using projects and specific DWT files
- Higher productivity in the longer term
- Better return on investment (ROI)

Standard **AutoCAD** DWG

Electrical workflow/ process

Electrical toolset DWG

Implement a toolset workflow

Setting up recognized CAD standards for each toolset

- Built in industry specific standards
- Set up for required output
- Change in workflow and process
- **AutoCAD Architecture** toolset = **3D modeling** instead of 2D drafting

Standard **2D drafting** DWG

AutoCAD Architecture toolset

Enhanced 3D modeling DWG

Implement a toolset workflow

Explaining the benefits of the toolsets to higher management

- Established AutoCAD 2D/3D workflow
- Problems/cost implications
- **Benefits** of toolsets – use the **Autodesk productivity studies** (online)
- **RETURN ON INVESTMENT (ROI)**

Productivity Studies → Long term benefits → **RETURN ON INVESTMENT**

Objective 4

Learn how to develop, implement, and enforce a training program around the AutoCAD specialized toolsets

Your training program

Imagine **THIS** question from directors & C-level staff: -

“What happens if we train them, and they leave?”

My reply is this: -

“What happens if we <u>DON’T</u> train them, and they <u>STAY</u>?”

Your training program

Set up a blended learning program to utilize the latest tech

Classroom instructor led training (ILT)
- People will always learn from people
- Face-to-face or remote/virtual (Zoom, MS Teams, BlueJeans….)

Online learning (LinkedIn Learning)
- With the #WFH ethic now part of working life, encourage certification as part of the workflow
- Certification preparation (Cert Prep courses)

Autodesk Certification – benchmarking the standard
- Autodesk Certification can become your knowledge benchmark for skills

RETURN ON INVESTMENT
- Well-equipped and well-trained staff are more efficient and productive
- They are also much happier in their roles!
- Give them the tech and the training they need!

Reviewing Our Objectives

OBJECTIVE 1

One AutoCAD| Subscription | **SEVEN** specialized toolsets

OBJECTIVE 2

Working with the toolsets | AutoCAD web & mobile app | Deploying the toolsets

OBJECTIVE 3

Toolset workflow | Conversion & CAD standards | Benefits

OBJECTIVE 4

Training & learning program | Blended learning | **RETURN ON INVESTMENT**

Using the **One AutoCAD** subscription, combined with the **AutoCAD web app** and **AutoCAD mobile app**, gives you incredible flexibility, utilizing **core AutoCAD technology**.

This provides you with seamless workflows and processes when collaborating with not just your CAD team, but with stakeholders and clients as well.

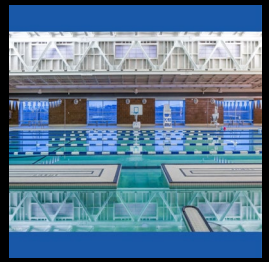
In fact, **ALL** the AutoCAD toolsets and apps give you, as a designer, an incredible amount of product and technology to, quite literally….

….MAKE ANYTHING.

One AutoCAD | Toolsets

Thank you, (virtual) audience!

You can add comments on my class page, and recommend the class there too.



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Want to see your work be featured by Autodesk?

Share your story.
Go to: autode.sk/autocadstory

We know that the best way to tell the AutoCAD story is to tell the stories about the people who use it.
Share your story with Autodesk for a chance to be featured in their upcoming marketing efforts.

Stay in touch (even after AU)

Email: shaun.bryant@cadfmconsult.co.uk
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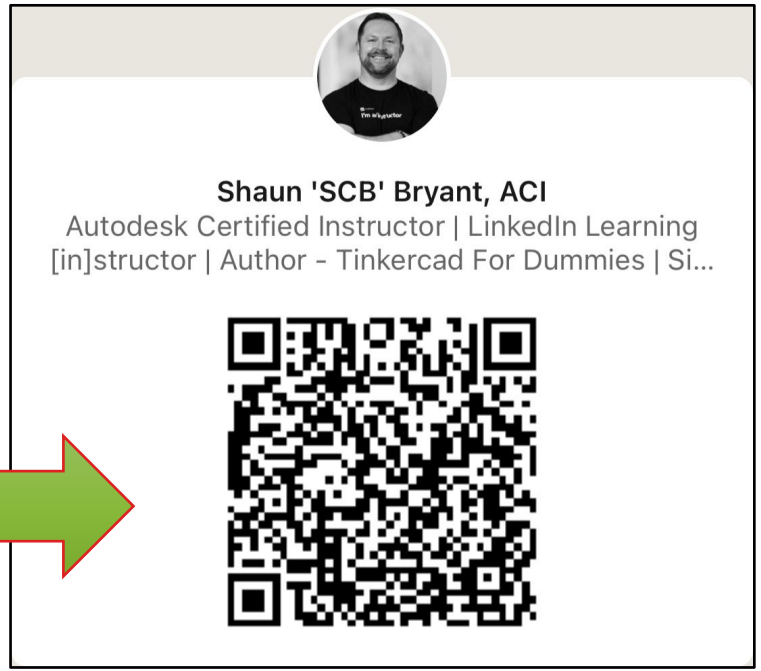
TAKEAWAY TIP:
Share your LinkedIn QR codes to stay in touch. Quicker than a business card!



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