



AutoDesk Solutions for Engineers

Exclusive Presentation for
Myanmar Engineering Society



Agenda



Speaker Profile
(3-5 minutes)



AutoCAD 2025 and
New Features in AI
Age (20-25 minutes)



BIM Collaboration
in AEC Industry
(30-37 minutes)



Q&A (5-10 minutes)



Speaker Profile

Empowering Minds, Transforming Futures



About Me

Andrew Aung

A data scientist and educator with extensive experience in data analytics, machine learning, and deep learning.

Empowering Education Anywhere.

Educational Background



Myanmar Maritime University

2004 – 2010

B.E (Marine Engineering)

Joined MMU after passing matriculation exam with five distinctions.



Yangon University of Economics

2018 – 2020

Master of Development Studies

Achieved a Master of Development Studies with a high grade of 4.3 out of 5. Served as Vice President of the 16th Batch of EMDevS.

Educational Background



Yangon University of Economics

2022 – 2024

Master of Applied Statistics

Achieved a Master of Applied Statistics with the highest grade of 4.5 out of 5 in the class. Served as President of the 4th Batch of MAS.



World Quant University, USA

2024 – 2026

Master of Science (Financial Engineering)

Enrolled at WorldQuant University, accredited by the Distance Education Accrediting Commission (DEAC).

Educational Background



Yangon University of Economics

2025 – 2027

Executive Master of Banking & Finance

Currently joining the banking & finance mater degree program to pursue risk management, corporate finance and financial modeling.

Work Experiences

Previously worked as a Project Engineer in the plant engineering industry and as a Petroleum Engineer in the upstream industry. Later, I founded an engineering school in Yangon called EduGate.

“As an engineer, I frequently worked with advanced mathematical calculations, which I thoroughly enjoyed.”



Project Engineer

Plant Engineering
Construction Co.Ltd,
Singapore



Petroleum Engineer

Baker Hughes International
Holding Co.Ltd
U.S



Founder

EduGate Engineering School
Yangon, Myanmar

Work Experiences

I am passionate about teaching and take pride in breaking down complex concepts into simplified versions. As an educator, I am fully devoted to inspiring and empowering students, dedicating my life to making learning accessible and engaging for all.

Inspiring minds, simplifying learning, and empowering futures.



Software Instructor

Served as the main instructor for over 20 Japanese steel design and fabrication companies.



National Consultant

Served as a National Consultant for numerous NGO and INGO projects.



Founder

Myanmar Online School
www.myanmaronlineschool.com

Work Experiences

I am a certified Data Scientist with credentials from WorldQuant University and IBM, and a Data Analyst certified by Google and Microsoft. My specialization lies in machine learning and deep learning. With a strong foundation in both industry experience and academic knowledge, I bring expertise to every aspect of data science.

Turning data into insights, and insights into action.



BI Manager

Served as Head of Business Intelligence at Myanmar's largest e-commerce company, Daraz Myanmar.



Corporate Trainer

Also work as a corporate trainer, teaching data analysis, research, and data science



Head of Data Science

Currently Head of Data Science at Matrix Institute, overseeing upcoming Data Science Diploma Programs.

Work Experiences

I am an experienced Educational Consultant and Service Provider, working closely with international and local organizations such as UNESCO, Save the Children Myanmar, GIZ Myanmar, SME Hub Asia, CSO Academy Myanmar, Lutheran World Federation Myanmar. With a strong background in digital education, curriculum development, and capacity-building initiatives, I provide tailored solutions that empower individuals and organizations to enhance their learning strategies.



Educational Consultant

Providing consultancy services for curriculum development, online learning strategies, and capacity-building initiatives .



Training & Capacity Building Expert

Designing and delivering training programs on digital literacy, data analysis, and business intelligence



E-learning & Digital Education Specialist

Developing online courses, interactive learning modules, and digital education strategies



AutoCAD 2025 & New Features in AI Age

Speaker: Andrew Aung





**AutoCAD 2025:
Design and drafting
software trusted
by millions**



**Accelerating
creativity**



**Connected
design experience**



**Tailored
functionality**



Accelerating creativity

Leverage machine learning technology and performance enhancements—to help you focus on designing innovative solutions with precision and efficiency.



“

Autodesk is committed to creating the
most performant CAD tool in the market.

”



Marcus O'Brien

Vice President of AutoCAD

On average, 2D files will open

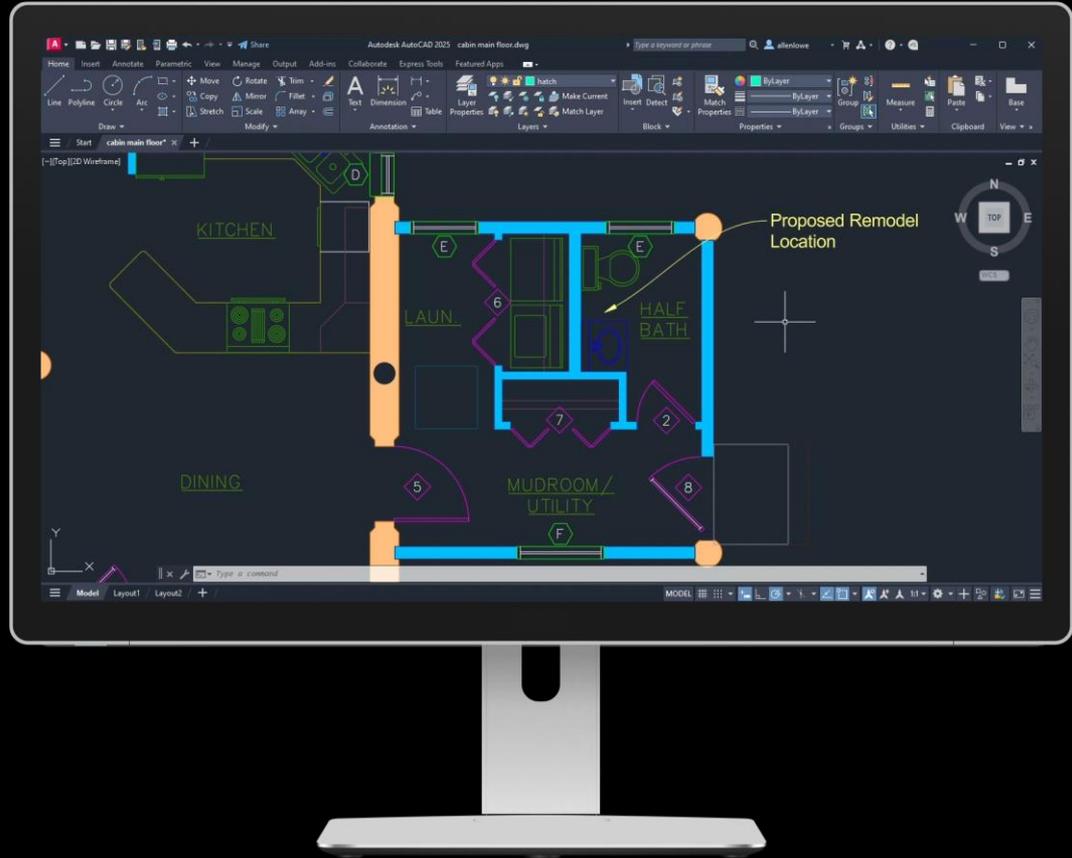
2x

**faster in AutoCAD 2025
vs. AutoCAD 2024**

* As with all performance tests, results may vary based on user experience, machine, operating system, filters, and even source material. While every effort has been made to make the tests as fair and objective as possible, your results may differ. Product information and specifications are subject to change without notice. Autodesk provides this information “as is,” without warranty of any kind, either express or implied. © 2024 Autodesk, Inc. All rights reserved

Hatch improvements

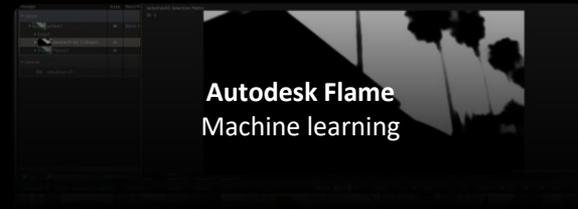
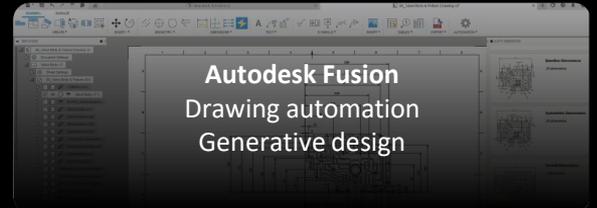
Add hatch textures to your drawings as fills or along paths—without pre-defined shapes or enclosed boundaries.



INCLUDED IN:



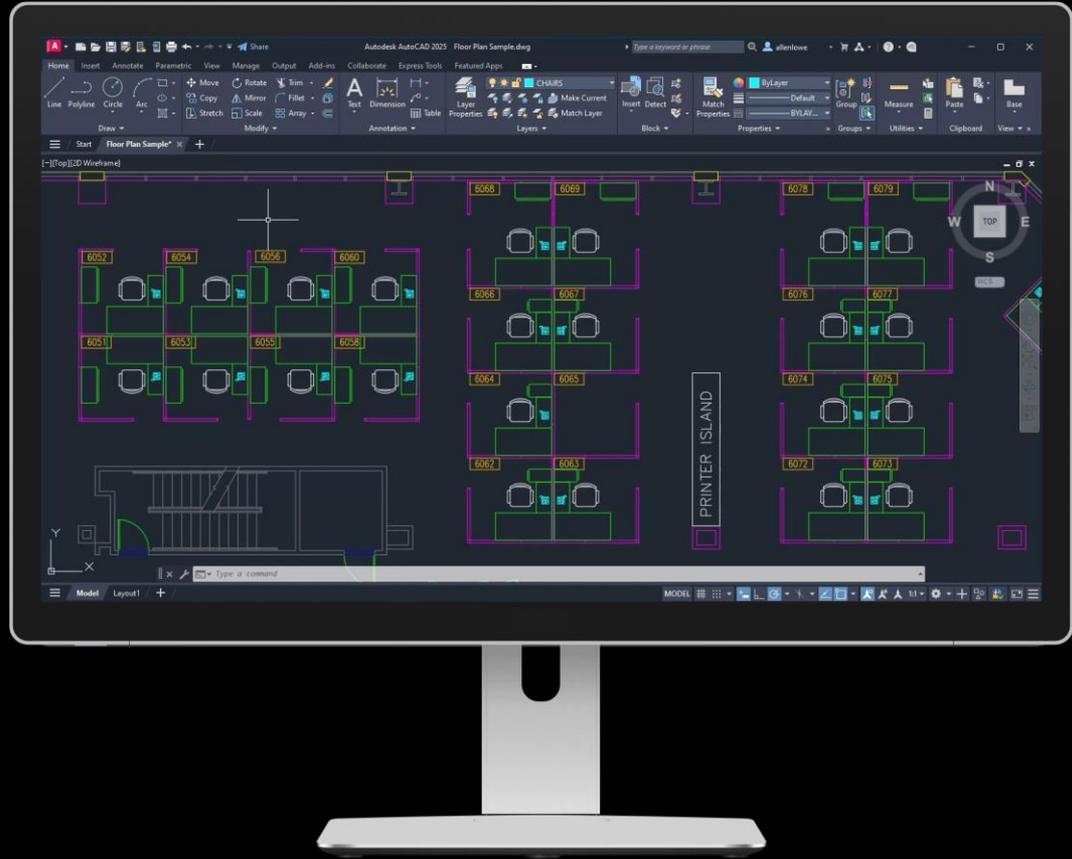
Automate, analyze,
and augment your Design and
Make workflows with
Autodesk AI



Smart Blocks:

Search and convert

Quickly search your drawings for objects to convert into instances of a newly defined block, an existing or recently used block, or a suggested block from your Block Libraries with the help of Autodesk AI.*



INCLUDED IN:

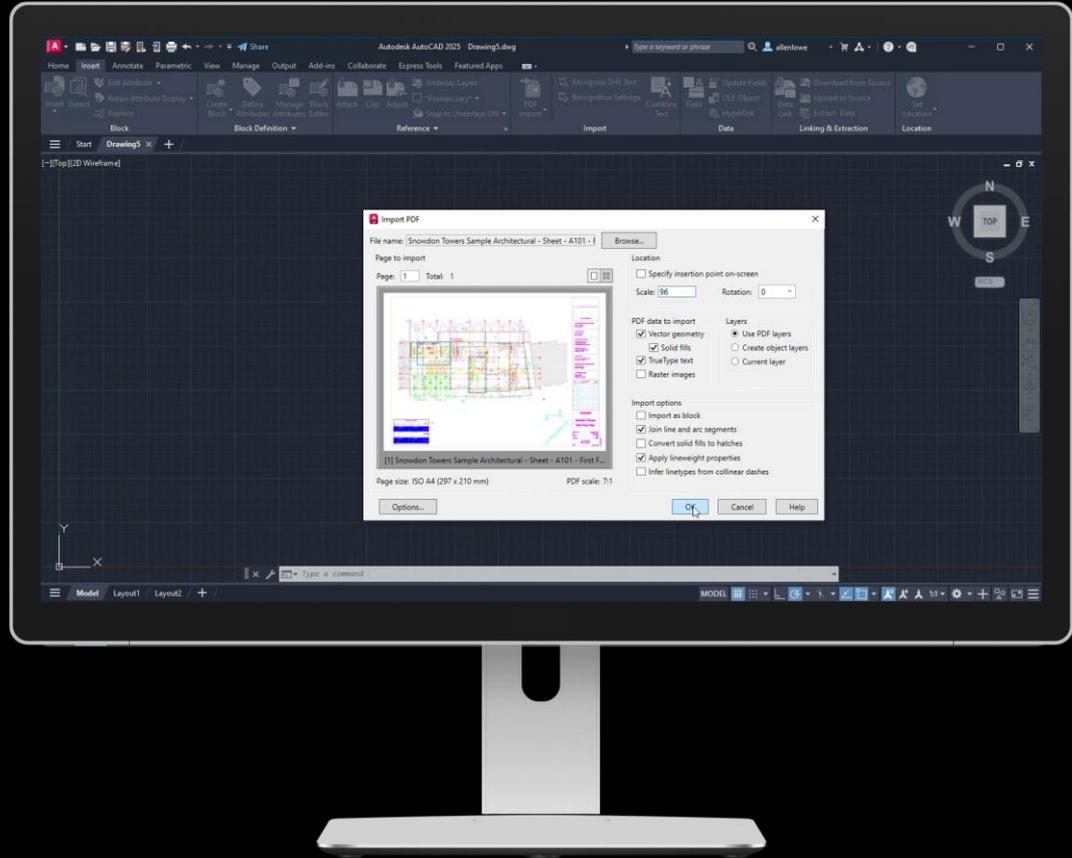


*Suggestions based on Block Libraries are only available in AutoCAD.

Smart Blocks:

Object detection tech preview

Improve design efficiency and save time when cleaning up drawings by automatically recognizing objects to convert into blocks with the help of Autodesk AI.



INCLUDED IN:





Search and Convert allows for a more efficient workflow within AutoCAD.

Blocks can get lost or be challenging to work with, and this feature allows for a more efficient approach, saving time and quickly creating new blocks from elements within the drawing

Joe VanderPluym

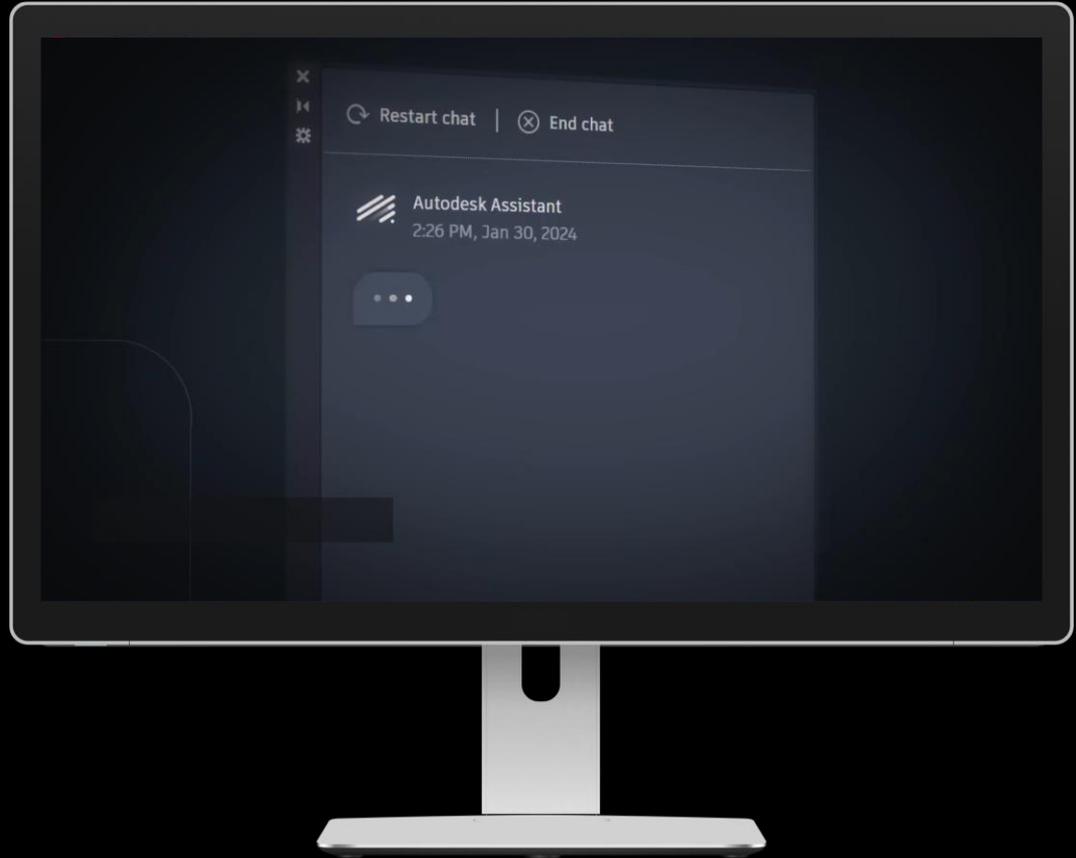
Design Associate



Autodesk Assistant

enhanced with Autodesk AI

Use conversational AI to conveniently access helpful AI-generated support and solutions related to AutoCAD.



INCLUDED IN:



AutoCAD 2025 *



AutoCAD LT 2025 *

*Autodesk Assistant is available for users to navigate in English, German, and Japanese versions of AutoCAD and AutoCAD LT. Autodesk Assistant with Autodesk AI is only available in English in AutoCAD. Depending on account type, select accounts can start a live chat with a technical support agent, request a call back at a convenient time, or submit a support case using Autodesk Assistant—giving you the opportunity to attach relevant files to provide the Autodesk support team with additional context to your specific design queries.



Previously, I had always used other tools for seeking information, but then you always need to specify much more if you want to find something that works for your specific problem.

The Autodesk Assistant actually gives me the correct commands directly in the reply, exactly what I would need from an AI assistant



Markus Karlsson

Senior Designer

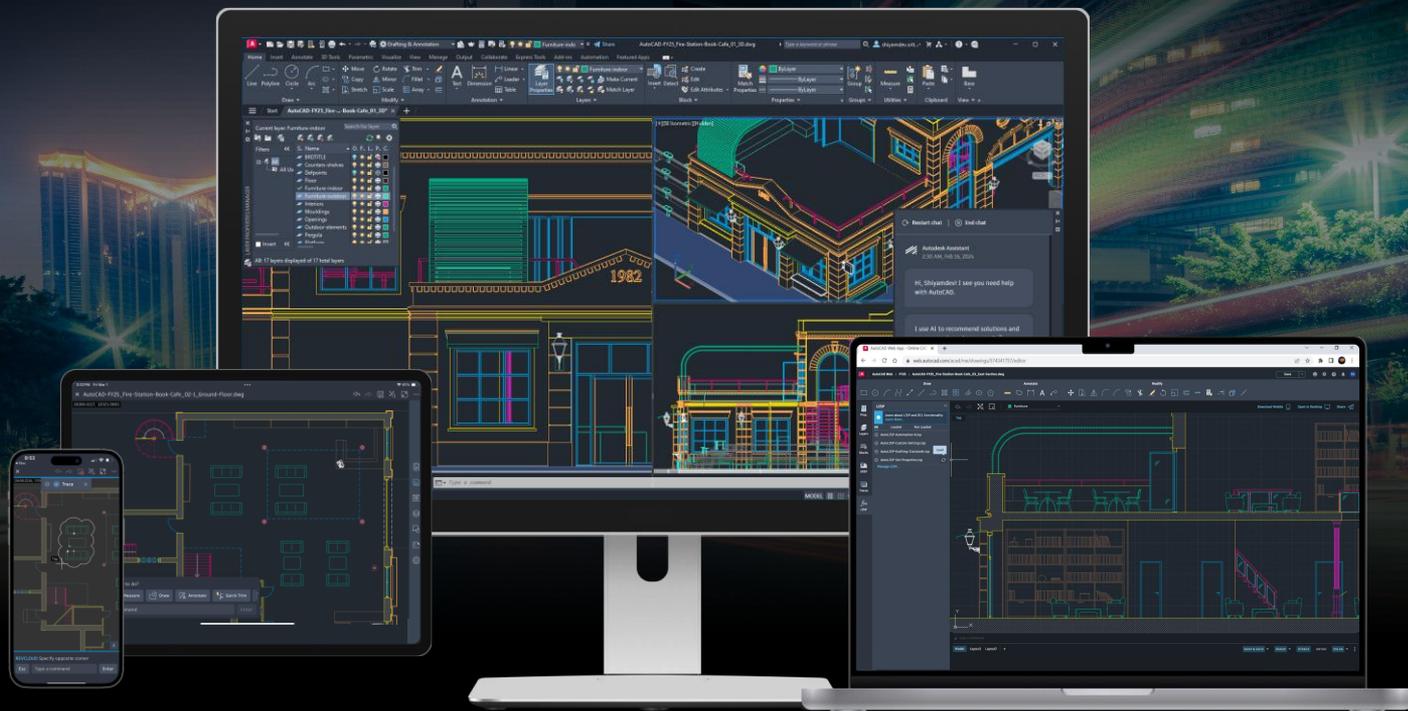


Connected design experience

Work the way you want by staying connected with one AutoCAD experience—to capture, share, and review ideas on the go.



AutoCAD desktop Core 2D & 3D Drafting



AutoCAD mobile
Bring in Field Data

AutoCAD web
Meet over DWG

AutoCAD Web



Essential drafting and design capabilities



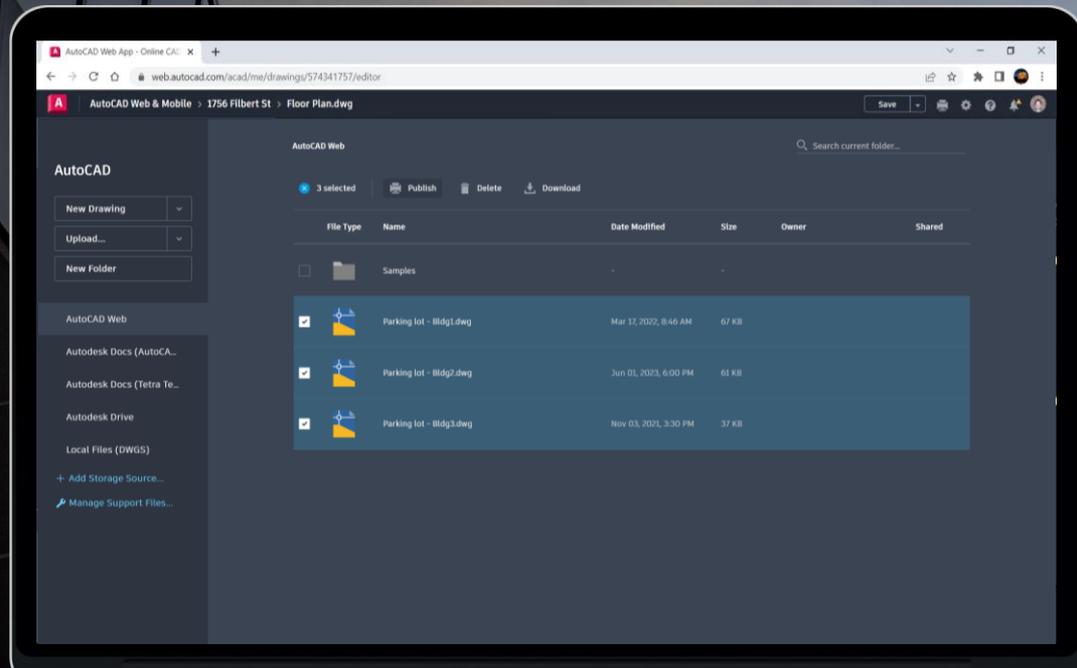
Bring teams together to review and edit CAD drawings



Make assessments and changes in the field

AutoCAD on the web

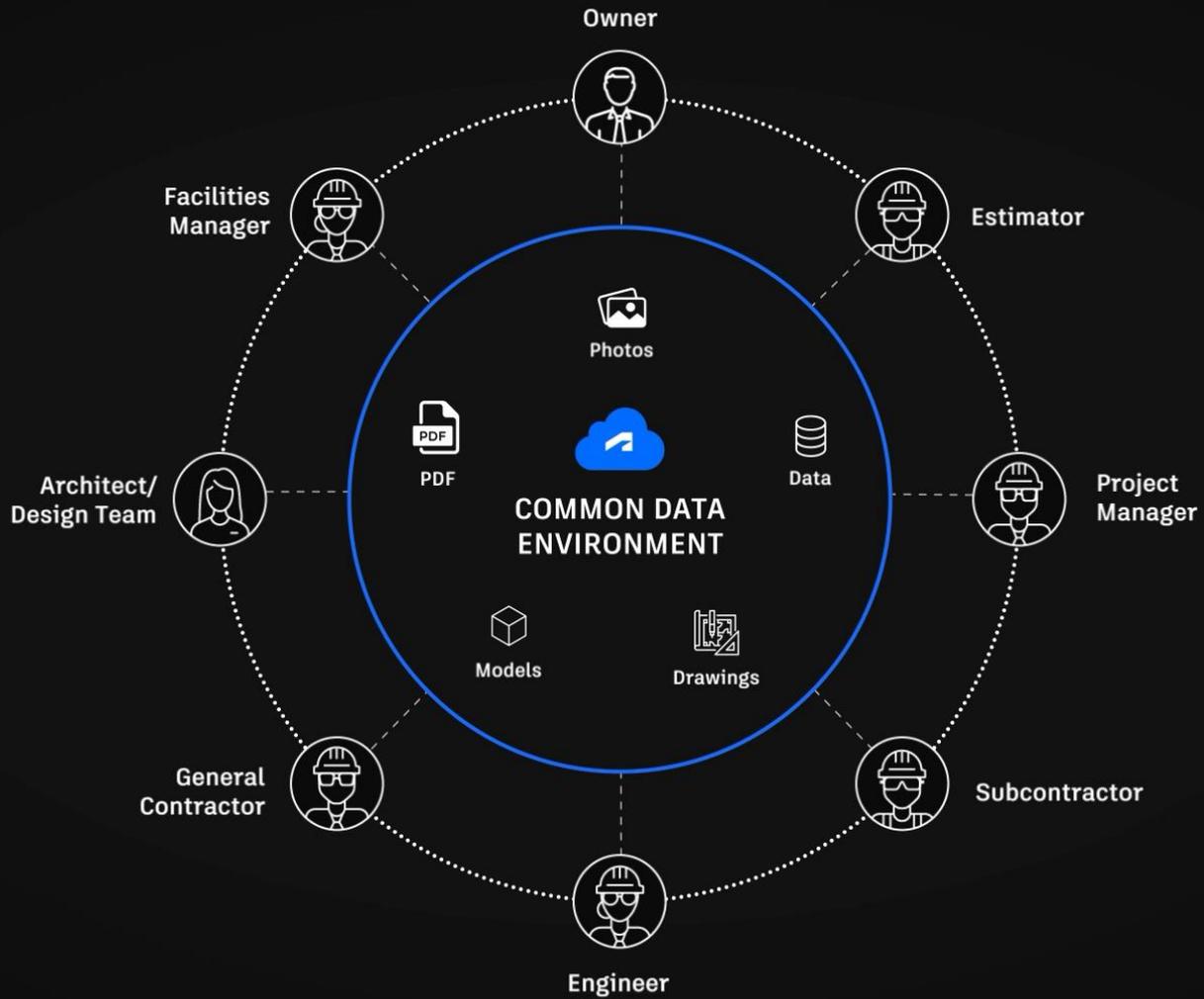
Login to web.autocad.com
to edit, markup, share, and view
CAD drawings in the browser on
any computer – no software
installation needed



AutoCAD on mobile

View, edit, and create CAD drawings anytime, anywhere with the AutoCAD on mobile





“

With this release, Architecture, Engineering, and Construction customers who use AutoCAD can experience enhanced capabilities with Autodesk Docs that will allow them to transform the way their teams work and experience digital project delivery.

”



Dania El-Hassan

Director of Product Management, AutoCAD

Sync Markups from Autodesk Docs

With **Markup Import**, you can now connect PDF files with markups made using Autodesk Docs into AutoCAD to continuously synchronize changes made by collaborators using the full set of markup tools available in Autodesk Docs.



INCLUDED IN:



AutoCAD 2025



AutoCAD LT 2025

Activity insights enhanced for Autodesk Docs

Access and track essential design data using detailed multi-user event logs with version history and comparison tools.

Use the Activity Insights palette or directly from the AutoCAD Start Tab—without requiring you to open drawings.

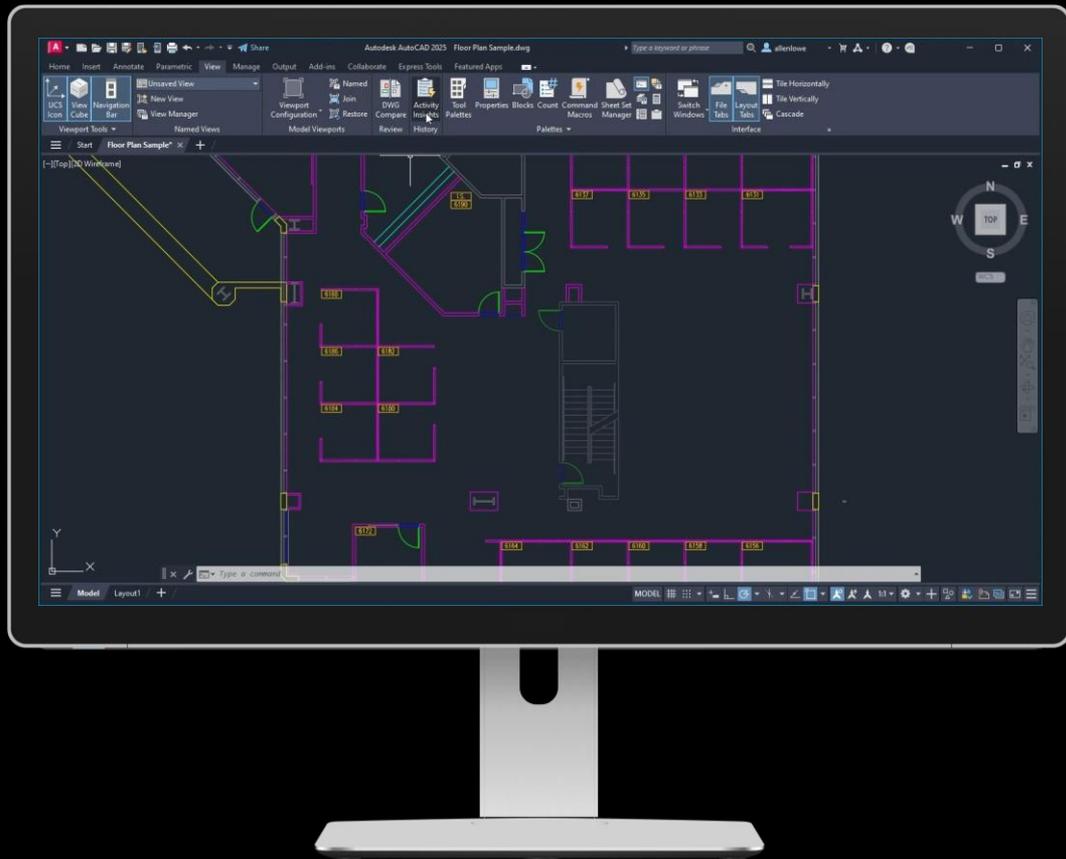
INCLUDED IN:

✓ **A** AutoCAD 2025

✓ **A** AutoCAD LT 2025*

✓ **A** AutoCAD Mechanical 2025

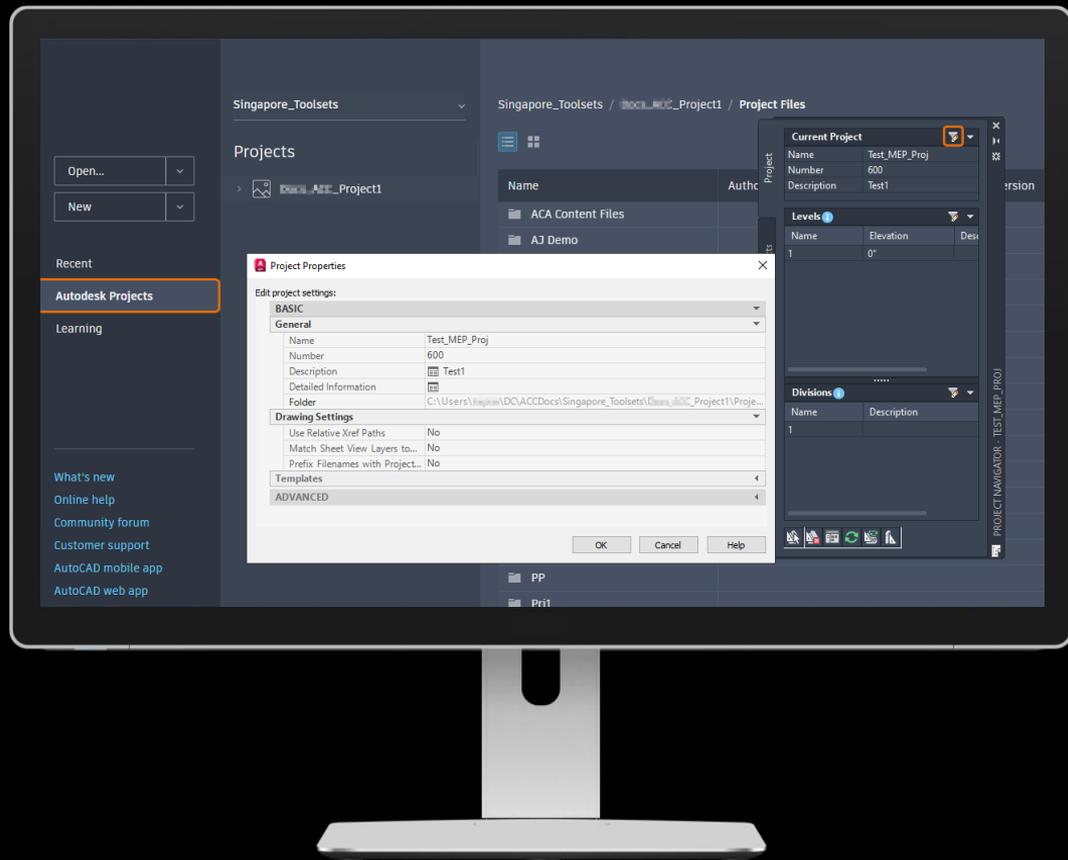
✓ **A** AutoCAD Electrical 2025



* Currently, AutoCAD LT displays only Version activity on the Activity Insights palette. All activities are logged for drawings saved to OneDrive, Box, Dropbox, and Google Drive. Activities outside of Version activity are not logged for drawings saved to Autodesk Docs.

Project navigator enhancements on Autodesk Docs

Support for automatic synchronization of drawing files across multiple users and machines when working with projects hosted on Autodesk Docs.



INCLUDED IN:

- ✓  AutoCAD Architecture 2025
- ✓  AutoCAD MEP 2025



Tailored functionality

Organizations can customize AutoCAD for their industries, empowering teams to build and run discipline-specific routines and workflows.

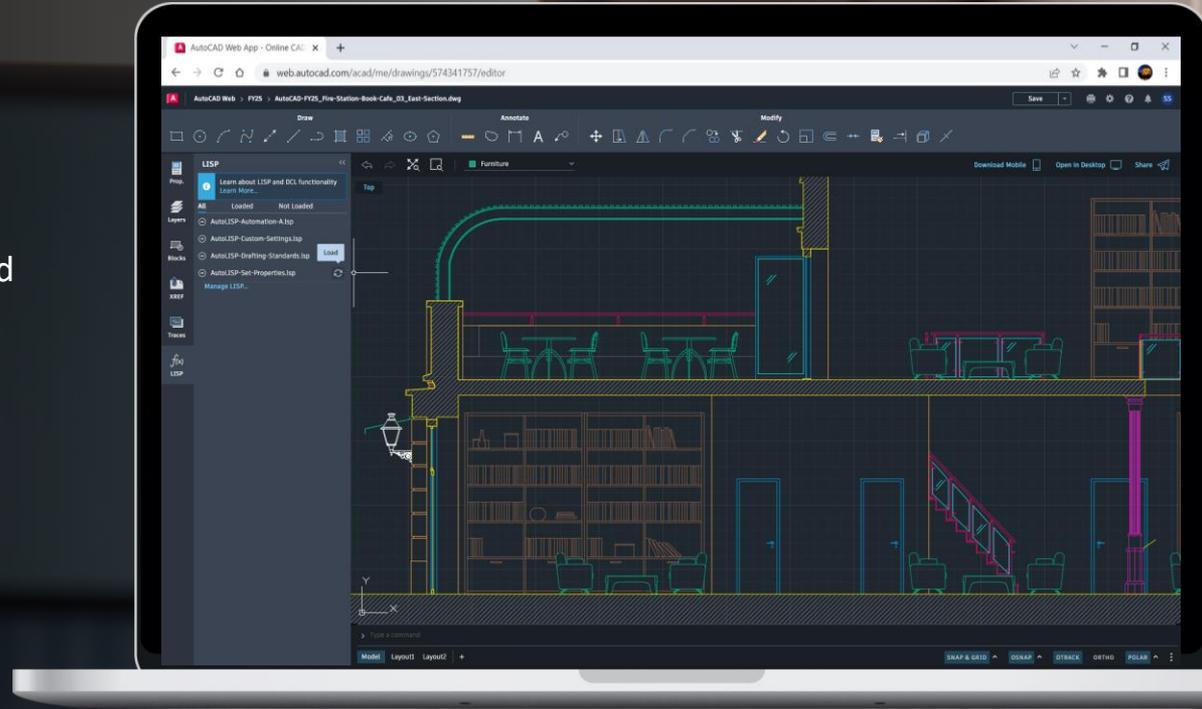


AutoLISP

Leverage thousands of previously written programs created for use in AutoCAD-based programs.

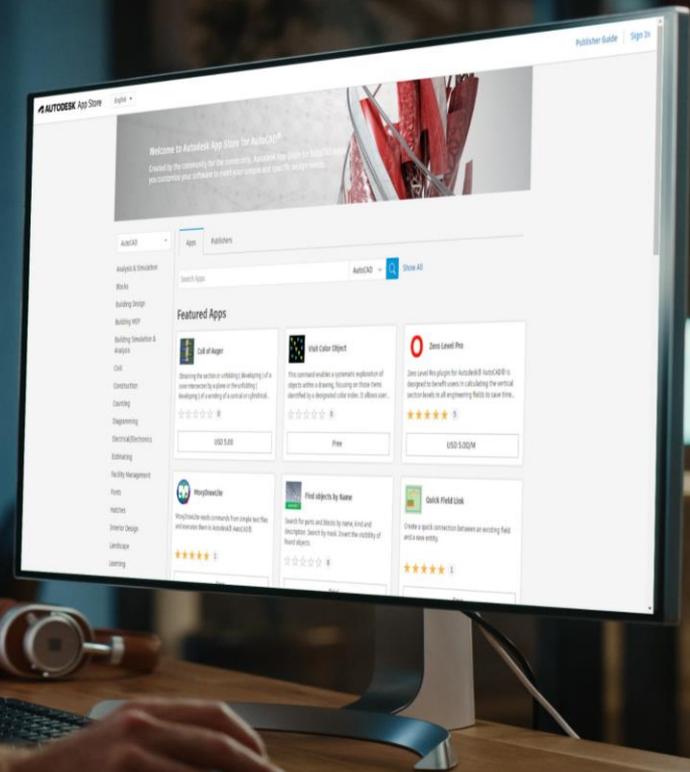
AutoCAD LT supports:

- ➔ AutoLISP Source (LSP) files
- ➔ Fast-load AutoLISP (FAS) files
- ➔ Visual LISP Applications (VLX) files



Apps & APIs

Access to over a thousand third-party apps with the ability to build your own with the AutoCAD API.



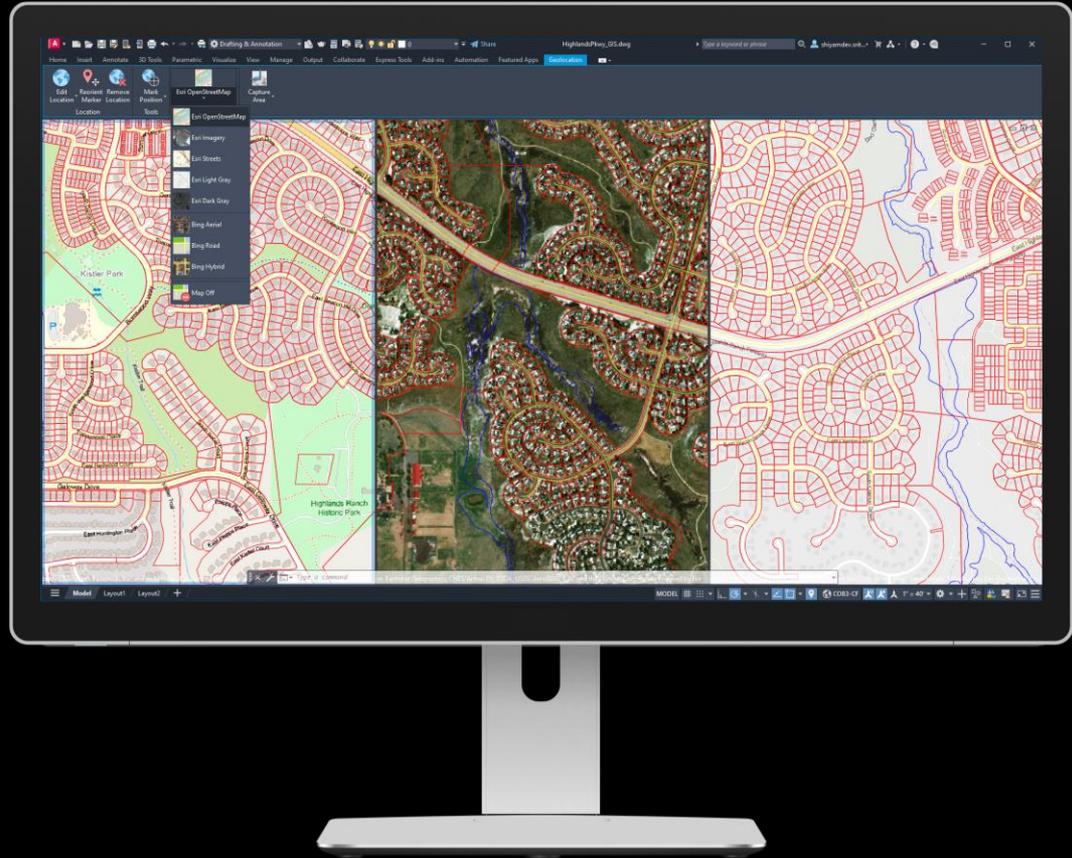
ArcGIS® Basemaps

Ground site plans with real-world geographical information.

- Esri Imagery
- Esri OpenStreetMap
- Esri Streets
- Esri Light Gray
- Esri Dark Gray

INCLUDED IN:

-   AutoCAD 2025
-   AutoCAD LT 2025
-   AutoCAD Map 3D 2025



Toolsets

Use specialized toolsets for discipline-specific features, functionality, and parts—including architectural, mechanical, electrical design components and more.

AEC and PDM toolsets

Additional automation for industry-specific tasks and hundreds of thousands of parts, symbols, and diagrams



ARCHITECTURE
TOOLSET

61%

Productivity gain*



ELECTRICAL
TOOLSET

55%

Productivity gain*



MECHANICAL
TOOLSET

95%

Productivity gain*



MEP
TOOLSET

85%

Productivity gain*



PLANT 3D
TOOLSET

74%

Productivity gain*



MAP 3D
TOOLSET

60%

Productivity gain*



RASTER DESIGN
TOOLSET

48%

Productivity gain*

* Across seven different studies designed by Autodesk and commissioned to an outside consultant. As compared to basic AutoCAD. Study was designed by Autodesk and commissioned to an outside consultant. Your results may differ. Autodesk provides this information "as is", without warranty of any kind.

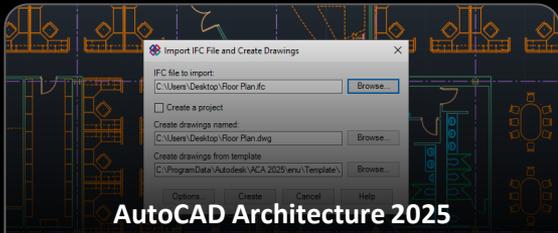
A woman with curly hair is sitting at a desk in a modern office, working on a laptop. She is looking at a large monitor displaying a CAD software interface. In the background, another person is working at a desk. The office has large windows and modern furniture.

Average productivity gain of

63%

for tasks completed using a
specialized toolset

* Across seven different studies designed by Autodesk and commissioned to an outside consultant. As compared to basic AutoCAD. Study was designed by Autodesk and commissioned to an outside consultant. Your results may differ. Autodesk provides this information “as is”, without warranty of any kind.



AutoCAD Architecture 2025

- Autodesk Docs Project Synchronization
- IFC Workflow enhancements
- Enhanced Architecture content in the Design Centre
- And more quality improvements and enhancements



AutoCAD Mechanical 2025

- More detailed Activity Insights with support for projects managed in Autodesk Docs
- Surface Texture Symbol for ISO Revision Update: ISO 21920-1:2021 and ASME Revision Update: Y14.36 – 2018
- Enhanced content library with more than 1197 new parts for ISO and DIN Standards
- And more quality improvements and enhancements



AutoCAD Electrical 2025

- More detailed Activity Insights with support for projects managed in Autodesk Docs
- Drawing list report in Automatic Reports
- Enhanced sorting options for BOM reports
- Wire Type synchronization
- Wire Number user attributes synchronization
- And more quality improvements and enhancements



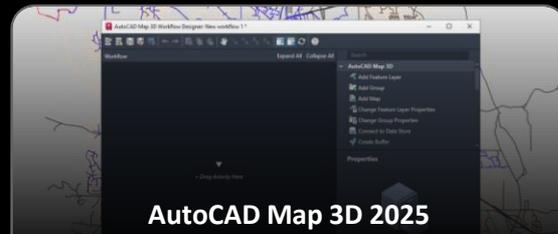
AutoCAD MEP 2025

- Autodesk Docs Project Synchronization
- New and enhanced MEP content for Equipment, Pipe Fittings, Duct Fittings
- IFC Workflow enhancements
- And more quality improvements and enhancements



AutoCAD Plant 3D 2025

- Enhanced collaboration on Autodesk Docs
- Support for weld symbols in both Autodesk Docs and Navisworks
- Enhanced P&ID Modeler
- P&ID ISA Symbology updates
- Pipe Support Substitution
- Ortho enhancements
- Pipe Spec Viewer Column customization
- Update to report Creator configuration file format
- Support for Lap and end types of 3D piping



AutoCAD Map 3D 2025

- Workflow enhancements
- FDO GeoPackage
- FDO WFS Provider enhancements
- Coordinate System Updates
- And more quality improvements

[View AutoCAD 2025 Release Notes](#)

The AutoCAD 2025 Portfolio

A AutoCAD
2025

Trusted by millions.
Built to accelerate
your creativity.

A AutoCAD LT
2025

Best-in-class tool for
2D drafting, design,
and documentation.

A AutoCAD Web

Essential drafting and
design capabilities for
your everyday needs.



Make Anything