



Colegio de San Juan de Letran
Dominican Avenue, Abucay, Bataan
Library and Media Services

RESEARCH GUIDE: COMPUTER AIDED DRAFTING

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COMPUTER AIDED DRAFTING

I. SCOPE NOTE

Computer-aided drafting is also called computer-aided design. CAD is a computer software or system that is used to create 3-D and 2-D representations or models of various tangible objects such as bridges, buildings, or mechanical parts. [learn.org](https://www.learn.org)

II. SEARCH AIDS (BT: Broader Term, RT: Related Term, NT: Narrow Term)

BT:

- Engineering Drawing

RT:

- CAD software
- Snapping and construction elements
- Dimensioning
- Plotting/inputting images
- 3D and navigating 3D
- Rendering

NT:

- AutoCAD
- Object Snaps (Osnaps)
- Arrowhead style
- Text location
- Lateral tolerances
- Dimension style drop down
- Title block
- Viewport
- 3D orbit
- Constrained orbit
- Free orbit
- Continuous orbit
- Adjust distance
- Swivel
- Zoom
- Pan
- Default materials

III. INFORMATION RESOURCES

A. LIBRARY RESOURCES

Note: For the appropriate access credentials, please contact the Letran Bataan Library

➤ **E-JOURNALS**

- Computers in Industry.
https://www.proquest.com/central/publication/publications_45387
- Proceedings of the Institution of Mechanical Engineers: Journal of Engineering Manufacture, Part B.
https://www.proquest.com/central/publication/publications_36148
- IOP Conference Series. Materials Science and Engineering.
https://www.proquest.com/central/publication/publications_4998670
- International Journal of Technology and Design Education.
https://www.proquest.com/central/publication/publications_55387
- The International Journal of Advanced Manufacturing Technology.
https://www.proquest.com/central/publication/publications_2044010
- i-Manager's Journal on Computer Science.
https://www.proquest.com/central/publication/publications_2037358
- Applied Mechanics and Materials.
https://www.proquest.com/central/publication/publications_2029177
- IEEE Transactions on Engineering Management.
https://search.proquest.com/central/publication/publications_4949
- International Journal of Electrical Engineer & Education.
https://search.proquest.com/central/publication/publications_37651
- Journal of Engineering Technology.
https://search.proquest.com/central/publication/publications_32062
- Technology & Engineering Teacher.
https://search.proquest.com/central/publication/publications_34845
- Journal of Management & Engineering Integration.
https://search.proquest.com/central/publication/publications_716332

➤ **E-THESES**

- Saengratwatchara, S. (2007). Antecedents of intention to adopt web-based computer aided facility management (CAFM) by facility managers (Order No. 3312739). Available from ProQuest Central. (304849540). Retrieved from <https://www.proquest.com/dissertations-theses/antecedents-intention-adopt-web-based-computer/docview/304849540/se-2?accountid=190548>
- Pierson, D. W. (2006). An investigation of the relationship between manufacturing organizations and computer -aided design (Order No. 3204914). Available from ProQuest Central. (304909761). Retrieved from <https://www.proquest.com/dissertations-theses/investigation-relationship-between-manufacturing/docview/304909761/se-2?accountid=190548>
- Tan, C. L. (2002). The impact of computer -aided design (CAD) systems on firm performance (Order No. 3058915). Available from ProQuest Central. (305483591). Retrieved from <https://www.proquest.com/dissertations-theses/impact-computer-aided-design-cad-systems-on-firm/docview/305483591/se-2?accountid=190548>

- Gallardo L., A. J. (2003). Skill and organizational complementarities to CAD /CAM technology use in small and medium sized manufacturing firms (Order No. 3117148). Available from ProQuest Central. (305319906). Retrieved from <https://search.proquest.com/docview/305319906?accountid=190548>
- Saengratwatchara, S. (2007). Antecedents of intention to adopt web-based computer aided facility management (CAFM) by facility managers (Order No. 3312739). Available from ProQuest Central. (304849540). Retrieved from <https://search.proquest.com/docview/304849540?accountid=190548>
- Morgan, M. F. (2009). CAD-GIS interoperability issues for facilities management: Enabling inter-disciplinary workflows (Order No. 1473064). Available from ProQuest Central. (304995579). Retrieved from <https://search.proquest.com/docview/304995579?accountid=190548>
- Kassem, D. (2014). The sketchpad window (Order No. 10591722). Available from ProQuest Central. (1896118068). Retrieved from <https://search.proquest.com/docview/1896118068?accountid=190548>
- Taylor, J. E. (2006). Three perspectives on innovation in inter organizational networks: Systemic innovation, boundary object change, and the alignment of innovations and networks (Order No. 3197516). Available from ProQuest Central. (304983301). Retrieved from <https://search.proquest.com/docview/304983301?accountid=190548>

B. OPEN ACCESS

➤ FREE E-BOOKS

- Shrock, Cheryl R. (2015). Beginning AutoCAD 2015 EXERCISE WORKBOOK. U.S.A: Industrial Press. <https://www.pdfdrive.com/beginning-autocad-2015-shrock-steveheather-exercise-workbook-d158151785.html>
- Omura, George and Benton, Brian. (2015). Mastering AutoCAD® 2016 and AutoCAD LT. Indiana: John Wiley & Sons, Inc. <https://www.pdfdrive.com/mastering-autocad-2016and-autocad-lt-2016-d34313512.html>
- Benton, Brian and Omura George. (2016). Mastering AutoCAD® 2017 and AutoCAD LT® 2017. Indiana: John Wiley & Sons, Inc. <https://www.pdfdrive.com/mastering-autocad2017-and-autocad-lt-2017-d167310382.html>

➤ FREE E-JOURNALS

- Computer-Aided Design. <https://www.journals.elsevier.com/computer-aided-design>
- Journal of Computer-Aided Molecular Design. <https://www.springer.com/journal/10822/open-access-publishing>
- International Journal of RF and Microwave Computer-Aided Engineering. <https://onlinelibrary.wiley.com/page/journal/1099047x/homepage/forauthors.html>
- Journal of Engineering, Design & Technology. <https://www.emeraldgroupublishing.com/journal/jedt>
- International Journal of Trend in Scientific Research & Development. https://www.ijsrd.com/research-area/126_s/engineering-drawing
- Open Engineering. <https://www.degruyter.com/view/journals/eng/eng-overview.xml>

- Journal of Engineering, Project and Production Management. <https://content.sciendo.com/view/journals/jepm/jepm-overview.xml>

➤ FREE E-THESES

- Fennell, M. L. (2014). A phenomenological study of drafting technology instructors from an online program of study in a technical college setting. (Thesis). University of Georgia. Retrieved from <http://hdl.handle.net/10724/26890>
- Thompson, Frederick Victor, I. (2014). Evaluation of a commodity VR interaction device for gestural object manipulation in a three dimensional work environment. (Thesis). Iowa State University. Retrieved from <https://lib.dr.iastate.edu/etd/14287>
- Al-Mousa, N. (2013). An Examination of CAD Use in Two Interior Design Programs From the Perspectives of Curriculum and Instructors. (Thesis). Queens University. Retrieved from <http://hdl.handle.net/1974/7905>
- Chan, V. H. (2017). Feature based reverse engineering employing automated multi-sensor scanning. (Thesis). University of Victoria. Retrieved from <https://dspace.library.uvic.ca//handle/1828/8860>
- Swab, A. G. (2012). The Effects of Cooperative and Individualistic Learning Structures on Achievement in a College-level Computer-aided Drafting Course. (Doctoral Dissertation). Virginia Tech. Retrieved from <http://hdl.handle.net/10919/28172>
- Morgan, M. F. (2010). CAD-GIS interoperability issues for facilities management| Enabling inter-disciplinary workflows. (Thesis). University of South Carolina. Retrieved from <https://www.proquest.com/dissertations-theses/cad-gis-interoperability-issues-facilities/docview/304995579/se-2?accountid=190548>
- Trent, D. L. (2011). Efficacy of Computer Aided Drafting (CAD) Certifications. (Doctoral Dissertation). Old Dominion University. Retrieved from 9781124930251 ; https://digitalcommons.odu.edu/stemps_etds/97
- Wilk, G. M. (2016). Development of Learning Objectives for an Undergraduate Computer-Aided Drafting and Design Animation Using the Delphi Technique. (Master's Thesis). Eastern Illinois University. Retrieved from <https://thekeep.eiu.edu/theses/2501>
- Roach, D. M. (2017). Computer Aided Drafting Virtual Reality Interface. (Master's Thesis). Embry-Riddle Aeronautical University. Retrieved from <https://commons.erau.edu/edt/374>
- Manrique Mogollon, J. D. (2009). Automation of design and drafting for wood frame structures and construction material waste minimization. (Doctoral Dissertation). University of Alberta. Retrieved from <https://era.library.ualberta.ca/files/mc87pr693>
- Anderson, B. K. (2017). Conceptual Fuselage Design with Direct CAD Modeling. (Master's Thesis). Arizona State University. Retrieved from <http://repository.asu.edu/items/44011>

C. PROFESSIONAL ORGANIZATIONS

- The Society of Computer Aided Drafting Designers. <https://www.thescadd.org/>
- ACADIA: Association for Computer Aided Design in Architecture. <http://acadia.org/>
- American Design and Drafting Association (ADDA). <http://www.adda.org/>
- Computer Aided Architectural Design Research In Asia (CAADRIA Homepage). <https://www.caadria.org/>

- Education in Computer Aided Architectural Design in Europe. <http://ecaade.org/>
- IEEE Institution of Electrical and Electronics Engineer. <https://www.ieee.org/>
- Audio Engineering Society. <http://www.aes.org/>
- American Council of Engineering Companies. <https://www.acec.org/>
- Association for Computing Machinery. <https://www.acm.org/>

D. OTHER RELATED WEB PORTALS

- On shape. <https://www.onshape.com/en/resource-center/innovation-blog>
- CAD Crown. <https://www.cadcrowd.com/blog/>
- CAD CAM Tutorial. <https://www.cadcamtutorial.in/>
- JTB World. <https://blog.jtbworld.com/>
- Graebert. <https://www.graebert.com/blog/>
- Autodesk Inventor. <https://blogs.autodesk.com/inventor/>
- Central Innovation. <https://centralinnovation.com/technical-resources/articles/>
- SELF CAD. <https://www.selfcad.com/blog>
- TRUE CADD. <https://www.truecadd.com/news/>
- Proto Tech Solutions. <https://prototechsolutions.com/cad-notes>
- CAD Intentions. <http://cadintentions.com/>
- Hi-Tech CADD Services. <https://www.hitechcaddservices.com/news/>
- CMS IntelliCAD. <https://blog.intellicadms.com/>
- CADDimensions, Inc. <https://www.cadimensions.com/blog/>
- Autodesk. <https://blogs.autodesk.com/autocad/>
- Grab Cad. <https://blog.grabcad.com/>
- Bricsys. <https://blog.bricsys.com/>
- CAD Notes. <https://www.cad-notes.com/>
- Scan 2 CAD. <https://www.scan2cad.com/blog/>

E. RELATED RESEARCH GUIDES

- Oakland Community College. <https://libguides.oaklandcc.edu/CAD>
- PCC Library. <https://guides.pcc.edu/CADD>
- TCC Library. <https://libguides.tcc.edu/subject/cad/research>
- ACC Library Services. <https://researchguides.austincc.edu/c.php?g=434673&p=2966948>

IV. TUTORIALS

- Introduction of CAD (Computer-Aided Design) | An Overview | CAD CAM Tutorials | Mech Tutorials Hub. <https://www.youtube.com/watch?v=Uk24iEmk1RI>
- CAD 101 Computer Aided Drafting 1 - Start drawing using CAD immediately. <https://www.youtube.com/watch?v=jEdyxwkCh74>
- AutoCAD Basic Tutorial for Beginners - Part 1 of 3. <https://www.youtube.com/watch?v=cmR9cfWJRUU>
- AutoCAD Basic Tutorial for Beginners - Part 2 of 3. https://www.youtube.com/watch?v=g_jKTV3pLp0
- AutoCAD Basic Tutorial for Beginners - Part 3 of 3. <https://www.youtube.com/watch?v=37S-2wZ2r0Q&list=RDCMUcPti5sLZXyYVnQEYqM-2Kig&index=3>

- CAD Video Tutorials. <https://www.youtube.com/user/cadvideotutorials>
- Computer-Aided Design. <https://www.youtube.com/watch?v=ZDeLwFwnFKg>
- Computer-Aided Drafting & Design. <https://www.youtube.com/watch?v=gTyyIN0HRlg>
- JTB World. <https://blog.jtbworld.com/>
- CAD Designer. <https://www.youtube.com/channel/UCuYqkCYxbO71qJfUjz6V6bg>
- Reddit. <https://www.reddit.com/r/cad/>
- True CADD. <https://www.truecadd.com/news/>
- Cadimension. <https://www.cadimensions.com/blog/>

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