

Data Mining in AutoCAD with Data Extraction

- We'll be starting shortly
- **While you wait:**
 - Open AutoCAD 2018
 - **C:\DATASETS\Ben Rand\AS197578-L** for lab course files
 - Open the PDF handout and arrange the PDF and AutoCAD so you can see both
 - Set your screen colors in OPTIONS the way you like them

**Don't forget to fill out your
class survey before you leave
AU!**

Data Mining in AutoCAD with Data Extraction

Ben Rand

Director of IT, CAD Manager, Developer
Job Industrial Services, Inc.





About the speaker

Ben Rand

Ben has been using AutoCAD since Release 12. He learned to program using LISP in AutoCAD, worked his way up through VBA, VB6 and VB.NET, and now spends most of his days programming in C# (occasionally still in AutoCAD!), and dabbling in other languages such as Java, Ruby and Python. He has worked in the Industrial Engineering field for more than 17 years as a CAD Manager, developer and IT Director. In 2013, he was the 2013 Top DAUG overall winner at AU, and he served a mentor for the AutoCAD Mentor All-Star team.

Ben is the proud father of four children and enjoys reading and playing a variety of sports including pickleball, volleyball, and tennis. In 2018, Ben was a member of two USTA men's league teams. The 18 and over team won the National Championship, while the 40 and over team was the Finalist.

Objectives

#1

CREATE

Create tables and text labels
based on drawing data

#2

EXTRACT

Extract data from multiple
drawings

#3

LINK

Link Excel spreadsheets with
AutoCAD data

#4

CUSTOMIZE

Customize data extraction using
sorting, filtering, formulas, and
totals

**Think of some way you can
apply what you learned today
to YOUR work!**



- CAD drawings are a gold mine of data
 - Objects to be quantified
 - Properties to be collected
 - Attribute data can be extracted
- Leverage this rich data source
 - Link text fields
 - Create table reports
 - Extract to or combine with Excel
- Increase your
 - Productivity
 - Accuracy
 - Efficiency

Exercise #1: Link Text Labels to Object Properties



Exercise #2: Furniture Report



Exercise #3: Sheet Index

- Bonus Exercise #1: Adding new drawings
- Bonus Exercise #2: “Grouping” sheet index by discipline

Exercise #4A: Landscape Material Summary



Exercise #4B: Linking to Excel



Exercise #5: Keynotes

-- Bonus Exercise #3: Room Schedule



Summary

- Extract valuable data from your drawings
- Create tables
- Extract to Excel
- Combine Autocad + Excel data
- Be more productive, accurate and efficient



Contact Me

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2018 Courses at AU

- AS197578-L: Data Mining in AutoCAD with Data Extraction
- SD195561: Control Your Code: Introduction to Source Control for Programmers and CAD Managers
- SD226637: Clean Code: Tips for Writing Clear and Concise Code

Pluralsight Course

- <https://www.pluralsight.com/courses/autocad-extracting-data-drawings>





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