IM10418-R-Planning the Future of ACE

Randy Brunette
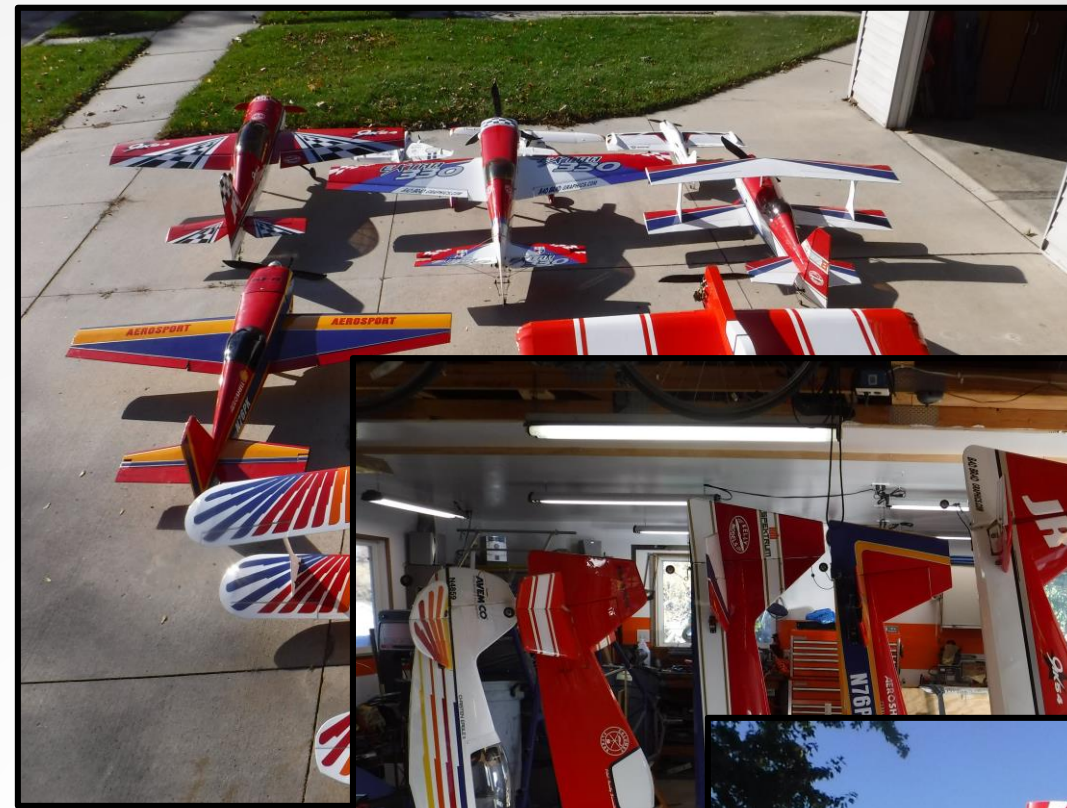
AutoCAD Electrical Evangelist

About your instructor

Randy Brunette

AutoCAD Electrical Evangelist

- AutoCAD since 1984
- AutoCAD Electrical since 1996
- 16th Year Teaching @ Autodesk University
- Fly radio control airplanes, helicopters, and quad copters

Discussion Topics

- Introductions
- Project data and collaboration
- Interface and Training
- ElectroMechanical (2D/3D) design
- Simulation
- Analysis
- Outside the Electrical Design Team

About You??

How many: (Raise hands)

✓ Currently use AutoCAD Electrical 2016?

✓ Currently use AutoCAD Electrical 2015?

✓ Currently use AutoCAD Electrical 2014 or older?

✓ Currently use Autodesk Inventor (any)?

✓ Currently use Vault?

Electrical Design Environment

- Size and length of projects? How many people?
    - Small to large (10-1300 dwgs per project)
- Do people work on same project? How many? In same design area?
    - People stepping on each other while trying to work within the same project
    - Sub-projects within major projects
- What are challenges? What did, and what didn't work?
    - Challenging to find all of the required files/paths
    - Would like a Wizard to assist in setting up the environment for ACADE for Multiple Users
        - Include Migration tools in the wizard (for management of existing custom content during software upgrades)
    - More training resources are needed
    - Needs to be easier to adopt/ More flexible adoption options (especially for the variety of industries using ACADE)
- Revision management?
    - Need drawing level revision management
    - Avoidance of wanting engineers to Rev in Vault

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Interface and Training

- Have you had training? If not, why not?
  - Very few people have had formal training
  - Lack of access to in-depth training
  -

- What improvements are needed?
  - Want it to be "black&white" in ease of use
  - Ways to share content across offices

- How should interface be improved?
  - Should be multiple ways to do things but have specific workflows that could allow people to choose what they need (User-based controls)

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ElectroMechanical (2D/3D) Design

- Do you use Electromechanical features? Why or Why not?
  - Small amount of people feel that these features are important to them
  - Some would just have one person doing both, but most would have multiple people using the diff platforms
  - Some feel the 3D in ACADE is easier to use with all of the ACADE tools/features and there is no need for the Inventor side
  - Vault doesn't support the ElectroMechanical workflow and needs to
- When would it be important?
  - Major reasons to use it: interference/collision checks
- What features would be needed to make it a great solution?
  - Need more parts content on the 3D side for Inventor (with intelligent constraints built in)
  - Need training that can be done cohesively across both ACADE & Inventor
  - Inventor would need the Reporting tools and spreadsheet update capabilities

Simulation

- Is circuit simulation needed? Why or Why not?
  - "It would be AWESOME"
  - Especially for Education/New Users/
  - 10 on a scale of 1-10 of desire to have
- What types of simulation are needed?
  -
  -
  -
- What features would be needed to make it a good solution?
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Analysis

- Is circuit analysis needed? Why or Why not?
  - 10+ (even more desired than Sim)
  - People willing to buy as an addin
  -

- What types of analysis are needed?
  - Load Calcs
  - Engineering tools
  -
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- What features would be needed to make it a good solution?
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Outside Influences

- What other software is used?
  - Promis-E (users think that they can get more reports out of it than in ACADE)
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- How do you work with your customers?
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Remember, the suggested response is...

Awesome!