ALTIUM LIVE
JUMP START YOUR ALTIUM DESIGNER PROJECTS

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Munich
January 16th, 2019
How Fast can we Create a new Altium Designer Project within a couple of seconds
Within Altium Designer
- Design Workspace
- Multi-Board Project
- PCB Projects
- Schematic Sheets
- PCB Documents
- Output Jobs
- Variants
- Schematic Library
- PCB Library
- Pad/Via Library
- ...

Outside Altium Designer
- Directory Structure
- Layer Stacks
- Design Rules
- Documentation Templates
- ...
Options for Creating New Altium Designer Projects

Start from Scratch
+ clean slate at project start
- time consuming at project start & end

Copy an Existing Design
+ appears to be fast, feels good
- just as time consuming at project start & end

Automate the Process
+ clean slate at project start
+ saves time at project start & end
+ consistency in data
- time consuming to set up
- cannot be completely automated
What could I achieve by writing software?

- simple command prompt program
- creation of folders
- copying of template files
- manipulation of ASCII-based Altium Designer files

What couldn’t I achieve by writing software?

- fancy GUI
- manipulation of binary (Altium Designer) Files
The program builds a directory structure and creates an Altium Designer Workspace based on a set of template files.
Everything is Connected

Consistency is Essential

Simplicity is Key
Consistency & Simplicity

Component Parameters
- Component Libraries
- Schematic Documents
- Variant Definitions
- Output Job
- Bill of Materials

PCB Technology
- Design Rules
- Layer Stackups
- Footprint Libraries
- Pad/Via Library
- PCB Documents
- Output Job

PCB Layers
- Footprint Libraries
- PCB Documents
- Output Job
Conclusions

Automating New Altium Designer Projects...

... saves time upon project start
... gives predictable results

Consistent & Simple Altium Data...

... saves time upon project finish
... gives predictable style & results
... gives confidence in the output data
Recommendations

- Create template sets of Altium Data to generate new projects from.
- Include everything in a template set, even the software to generate a new project.
- Be consistent.
- Keep it Simple.
- Enjoy the results.
Demo

- software that creates new Altium Projects
- example Altium Designer Project

Discussion

THANK YOU VERY MUCH FOR YOUR ATTENTION & CONTRIBUTION
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