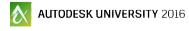


Key learning objectives

At the end of this class, you will be able to:

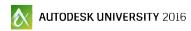
- Consider using Revit Structure for rebar detailing
- Learn about the benefits of a BIM-centric workflow
- Learn about different workflows used for RC detailing around the world
- Tell possible missing features to software developers





Introducing Thomas Fink

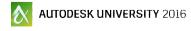
- Studied Structural Engineering at Technical University Munich (TUM)
- 3 years research assistant at TUM
- 1983 1999: Self employed as chartered structural engineer
- 1983 today: Software developments in structural engineering, Co-founder of SOFiSTiK
- 1999 today: CEO of SOFiSTiK AG
- ... and ...
- Loves to fly balloons and to sail ⊕ (time permitting ⊕)





Please quickly introduce yourself

- Name
- Company
- Job Description
- Location





Short Introduction





Traditional Workflow

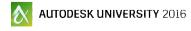
- Geometric Model from Architect
- Analytical Model in Analysis Software
- Design/Code checking
 - Analysis Software
 - Separate Software
 - Spreadsheets
- Design Intent documented with Sketches
- Symbolic presentation of Rebars in 2-D





Suggested Workflow

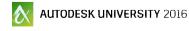
- One (Revit-)Model with
 - Geometry
 - Analytical Model
 - 3-D Rebars
 - 2-D symbolic representation
 - Bills of material
 - Production data





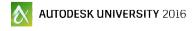
Benefits

- Reduced risk of inconsistencies
- Semi-automatic generation of rebar cages
- Checking reinforcement required vs.
 Reinforcement in the model
- Increased efficiency allows to stop outsourcing
- 3-D-Rebar Model can be used for clash detection and automatic fabrication





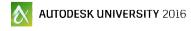
Discussion





Topics to discuss

- Will the suggested workflow work?
- Is it desired?
- Shall/can traditional workflows be changed?
- Does the software work?
- Is third party software a barrier for entry?
- Is it really more efficient?
- Other reasons?







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