Enhance Rebar detailing with Revit and Graitec Powerpack!
About the speaker

Stevens CHEMISE
Structural Engineer
BIM Industry Manager at Graitec Innovation, part of the Graitec Product Management Team
15 Years experience in several BIM Software companies
Main technical expertise on Revit, Navisworks, BIM 360 for Architects or structural engineer, workflow between Autodesk products and Graitec design software.
About the speaker

Daniel GHEORGHE

Structural Engineer
Technical solutions consultant at Graitec Romania
Part of the R&D and Sales departments
7 years experience with Revit Structure
Certified Professional and ATC Instructor
I use my structural engineering experience to
develop and improve our solutions. Proficient with
BIM 360, Dynamo for Revit, Advance Steel,
Navisworks
BIM Design using Autodesk products and enhanced with Graitec Power Packs

Taking BIM Deliverables through to finished fabricated product and site delivery

Manage all of your company W.I.P BIM data and I.P before collaborating with an external CDE

Using your BIM model to Simulate your designs for use in the “real world” with market leading Graitec technologies
Class Description
3D Reinforcement, why?

- Consistency and quality of reinforcement drawings
- Workflow and link with the Revit formwork model
- Clash detection
- Workflow with design software
- Workflow with Fabrication
- Quantity take Off
In this class, you will discover a set of effective tools to address rebar detailing topics within Revit using the PowerPack add-on.

First, you will measure added value of using wizard for **3D cage generation**, applied for usual linear elements such as **beams, columns and footings**, respecting common constructive disposal rules. Complementary tools to manage rebars during creation phase will be presented such as controlling rebar visibility or manipulating bars (trim, extend, copy or split bars...).

Then, standards reinforcement will be completed with additional bars placed around **openings and edges** for planar elements (**walls and slabs**). Automatic schedules will be created thanks to flexible and configurable templates.

To conclude, **reinforcement drawings** will be generated with specific commands, assisting users to choose right tittle blocks, to place views or schedules in final sheets. Drawings will be tuned with **bending details, automatic schemas** completing schedules and **end bar symbol**.
Learning Objectives

• Generate parametric rebar cages for RC members, including automatic constructive disposals.

• Generate bars and fabrics schedules and get quantity takeoff in few clicks!

• Edit Rebar in your Revit Model: split, crank, copy rebar, visibility …

• Custom and tune final rebar drawings with dedicated detailing tools.
Typical personas

- Rebar Draftsmen
- Rebar detailers
- Structural engineers
- BIM Modeler
- BIM Manager for structural project
WHAT IS POWERPACK FOR REVIT?

• The GRAITEC PowerPack provides a broad suite of unique commands and functionality to significantly increase productivity when working with Autodesk® Revit®
WHAT IS POWERPACK FOR REVIT?

- Constructive Dispositions, Design codes, ...
- For Architects, MEP, Structural users (Link to Excel, Family Manager, Element lookup, ...)
- Features to speed up rebar cages generation and detailing drawings
- Revit users around the globe

**8** LANGUAGES
**+80** TOOLS FOR ALL REVIT USERS
**+50** DEDICATED TOOLS FOR REBAR DETAILING
**+20,000** USERS
NEW FEATURES

- Opening
- Edge
- Cranked Bar
- Layers
- Bending details
- End Bar Symbol
PUBLISH MODEL WITH BIM 360
Link to Fabrication

Arma+ is a full integrated Rebar and Steel Workshop Management system (MIS), existing since more than 30 years, able to complete production control

- Automated allocation and routing of jobs
- Optimization of the rebar cages for fabrication
- Time assessment and workload calculation
- Stock management
- Material traceability and optimization
- Material optimization
- Project and delivery planning management