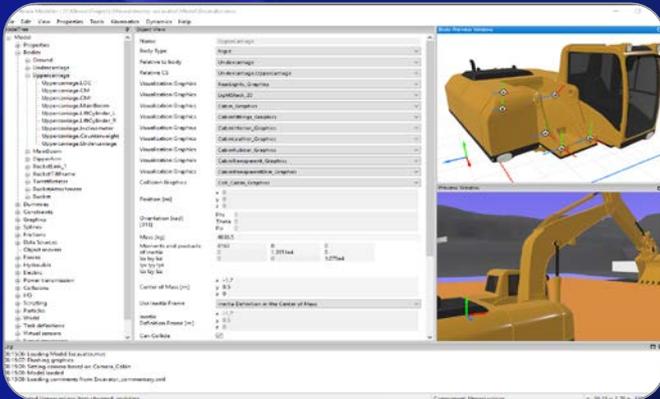


Mevea Academic Solution Options



Mevea Software Package

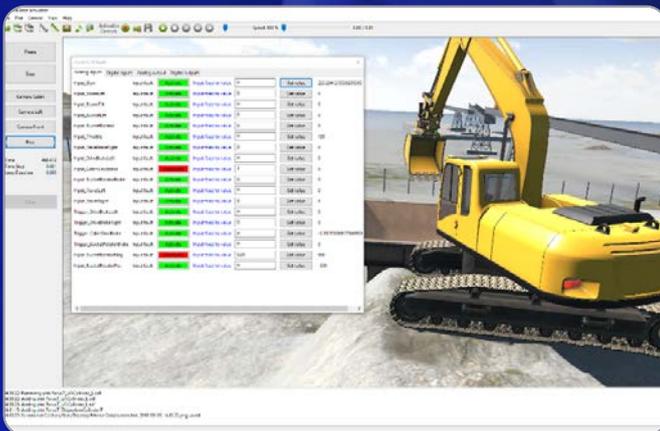
Mevea Modeller



A specialized Modelling tool for real time dynamics:

- Mechanics, hydraulics & powertrain
- Process models (e.g. soil)
- Collisions
- Virtual sensors
- Control signals
- External I/O definitions

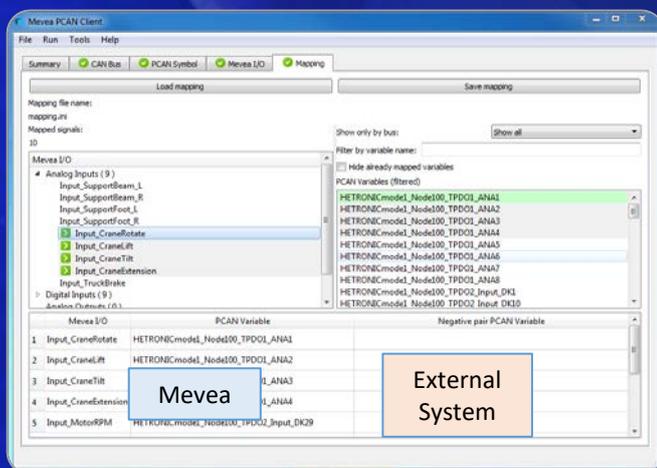
Mevea Solver



Real time Solver for connected Multibody System Dynamics incl.:

- Hydraulic actuator forces
- Tyre forces
- Rope forces
- Contact forces
- Wind resistance forces

Mevea I/O Toolbox



Mapping, client and signal tools for I/O connection creation and running:

- Asynchronous method for data transfer between Solver and separate software or hardware
- Real controllers, machine control systems and other hardware in-loop
- Support for large amount of inputs and outputs

“Mevea Research Pack” Overview

Work
Process

Environment

Machine

I/O Interface



1. Mevea Simulation Software and Excavator Digital Twin

- Mevea Software Package for Simulator (x1) and Classroom (x10)
- Excavator Digital Twin with Unity3D visualisation
- Virtual environment



2. Machine Control System

- Siemens SIMATIC 57-1200 logic with display



2. Simulator with Motion Platform

- Simulator with motion platform, computer, displays, operator seat & controls and VR headset

Mevea Academic Solution Packages

Solution	Description	Content
1. Research	Mevea software for research usage.	<ul style="list-style-type: none">• 1 x Mevea software Package (i.e. one concurrent user)
2. Teach and Research	Mevea software for classroom & research usage.	<ul style="list-style-type: none">• 10 x Mevea software Package• Mevea software training via web or at Customer premises
3. Teach, Research, Learn and Experience ("Mevea Research Pack")	Mevea software for classroom & research usage and Mevea simulator platform with motion for Digital Twin "hands-on" experience.	<ul style="list-style-type: none">• 10 x Mevea SW Package and 1 x Mevea Simulator SW Package• Mevea Excavator Digital Twin or optionally customer specific equipment model• Mevea SW training via web or at Customer premises• Mevea simulator platform with motion• Siemens SIMATIC 57-1200 logic with display• VR Headset

Mevea SW Package = Modeller, Solver and I/O Toolbox

Mevea Simulator SW Package = Modeller, Solver, I/O Toolbox, Launcher, Motion Platform Controller and Remote Access

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