





Muhammad Sajjad

Solid Edge Application Engineer



Mike Ashbaugh

Solid Edge Electrical Design

Solid Edge Portfolio



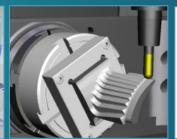
Mechanical Design



Electrical Design



Simulation Manufacturing



Technical Publications



Data Management



Cloud-based Collaboration



Access the Solid Edge Portfolio and Resources

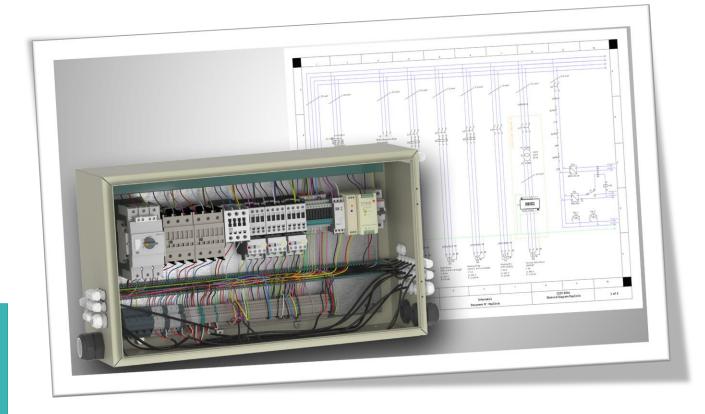


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Solid Edge Wiring & Harness Design





Electrical Design



Simulation

Manufacturin g

Technical Publications

Data Management Cloud Based Collaboration

"Smart Connected" Products



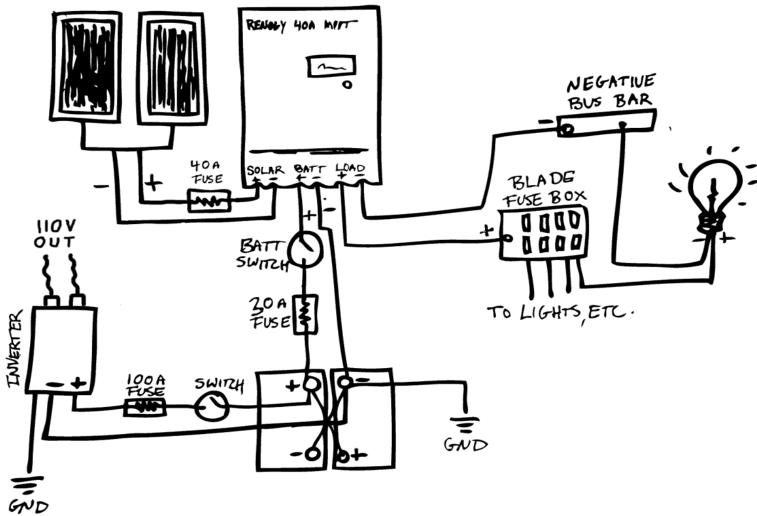




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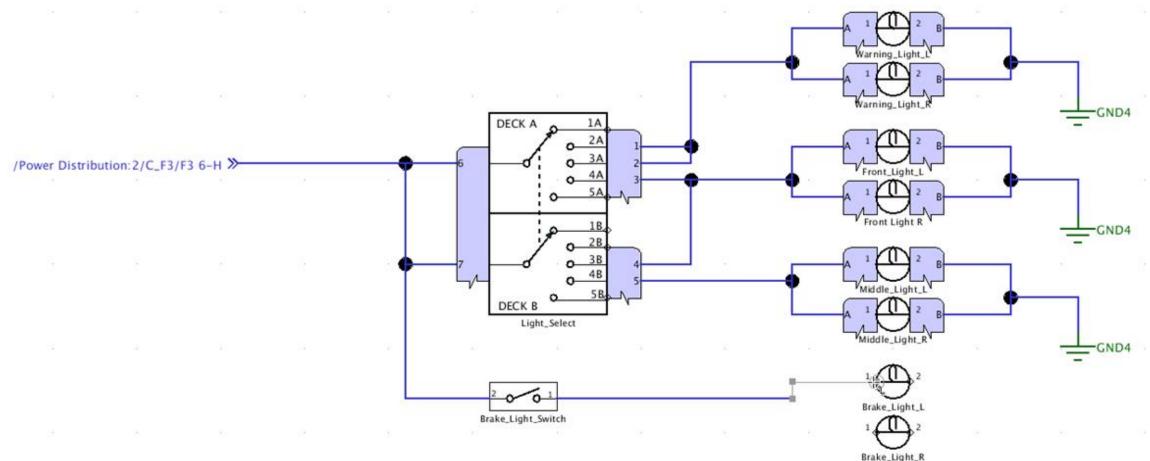
Non-Intelligent Electrical Schematic





Intelligent Electrical Schematic





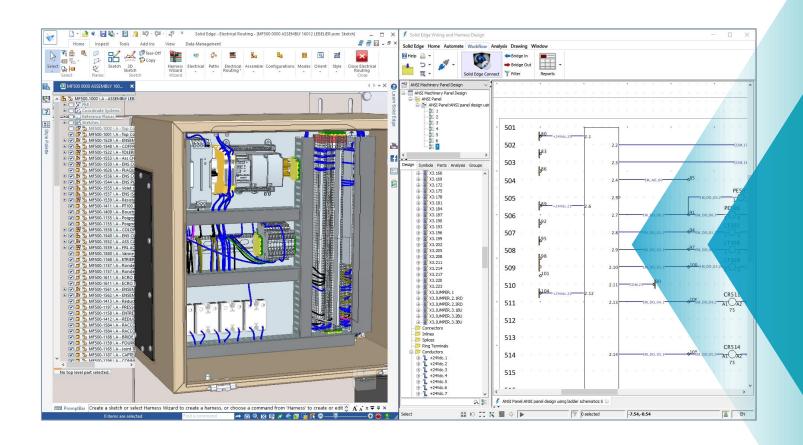
Impact of Growing Electrical Content





Solid Edge Wiring Design





- Intelligent Diagrams
- Electrical Parts Library
- Consistency with Styling
- Design Rule Checks
- Simulation

Creating an Intelligent Electrical Schematic



Ingenuity for life



Analyzing an Intelligent Electrical Schematic

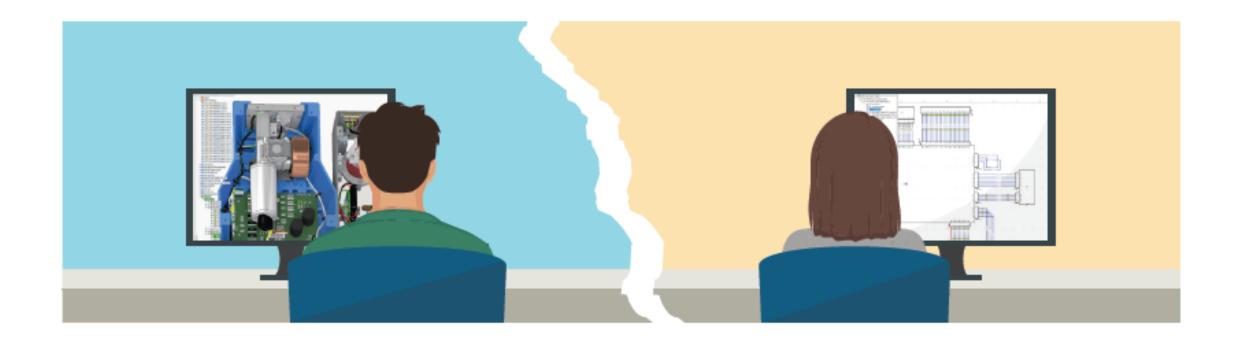


Ingenuity for life



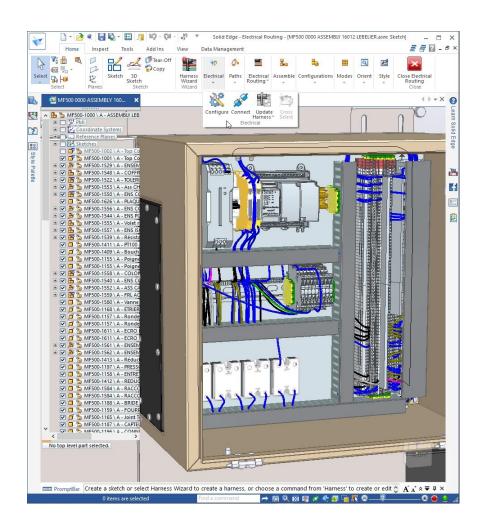
Traditional Approach

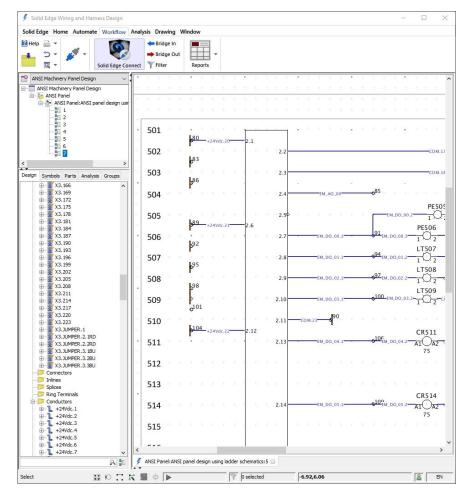




A Better Way



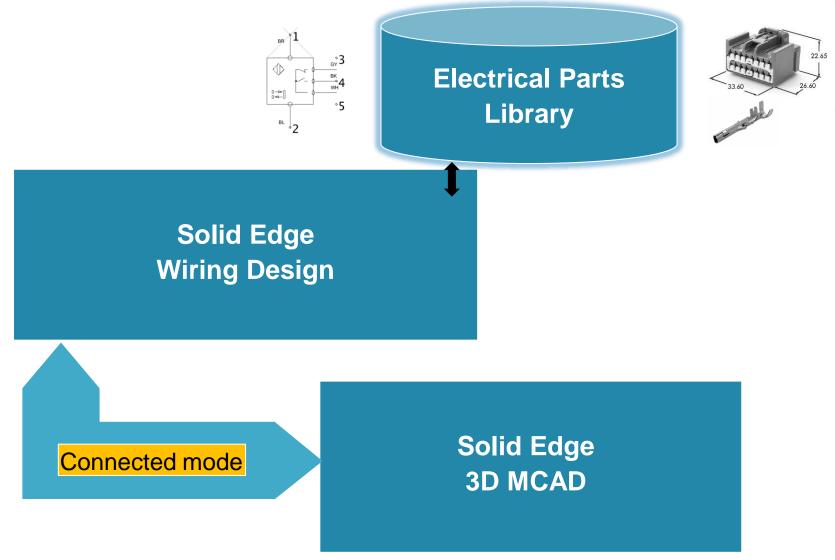




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Data Flow





ECAD/MCAD CollaborationMechanical



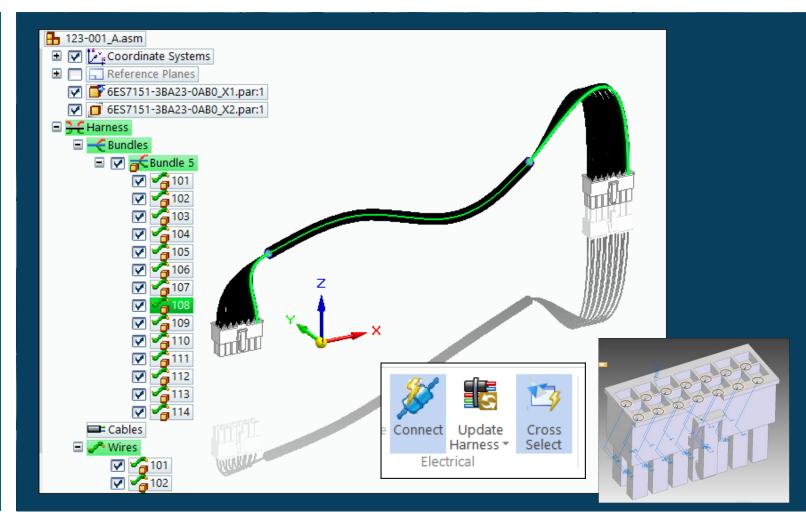
Wires rubbing on mechanical components?

Wires in hot areas of the assembly?

Enough room for the harness?

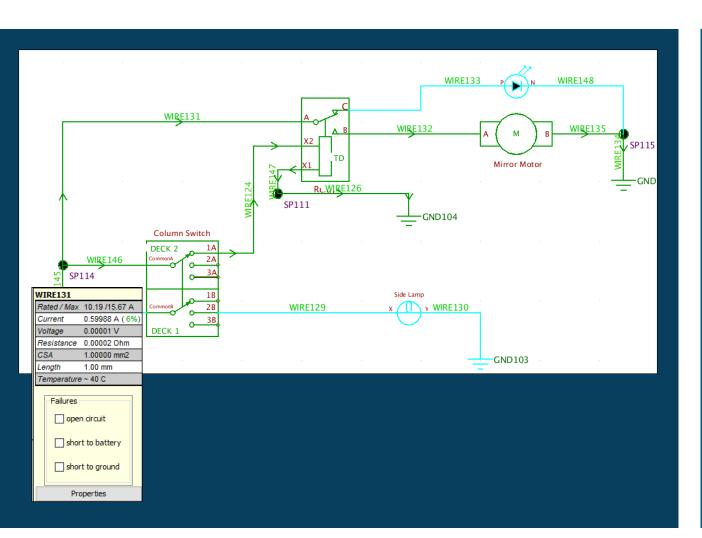
Solid Edge 2021

Wiring and Harness Design



ECAD/MCAD CollaborationSimulation & Design Rule Checks





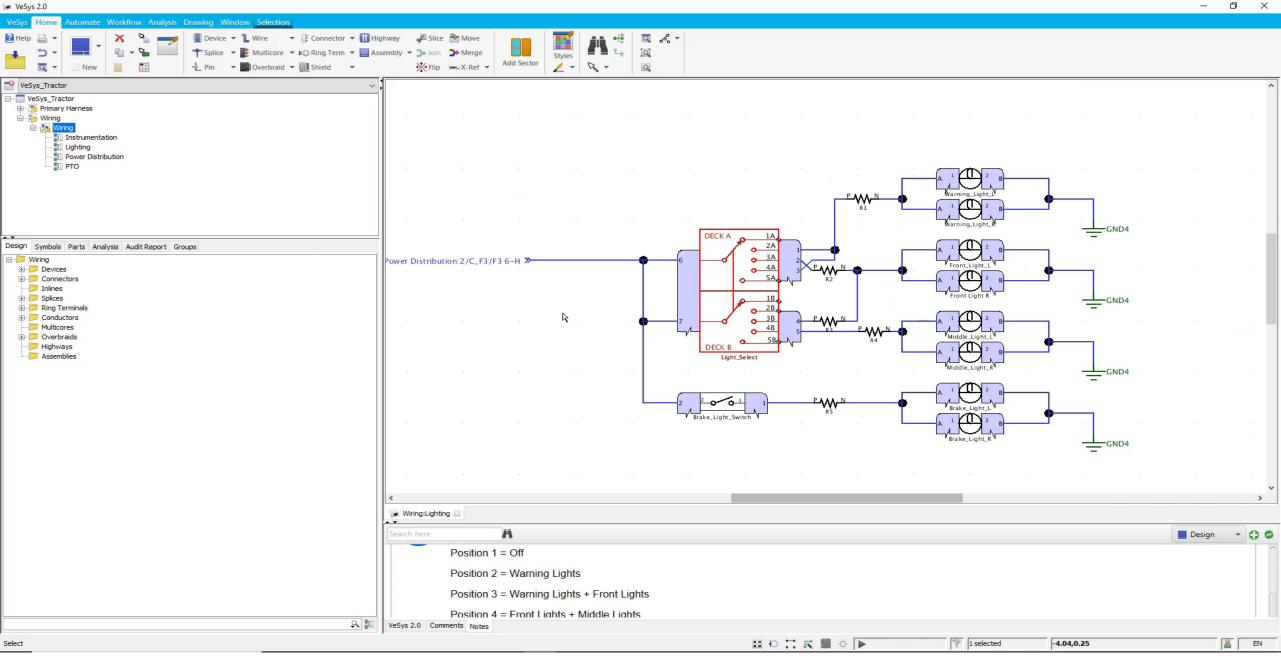
Do the signal wires have enough strength?

Are the wire diameters sized properly?

Are the fuses the proper size?

Solid Edge 2021

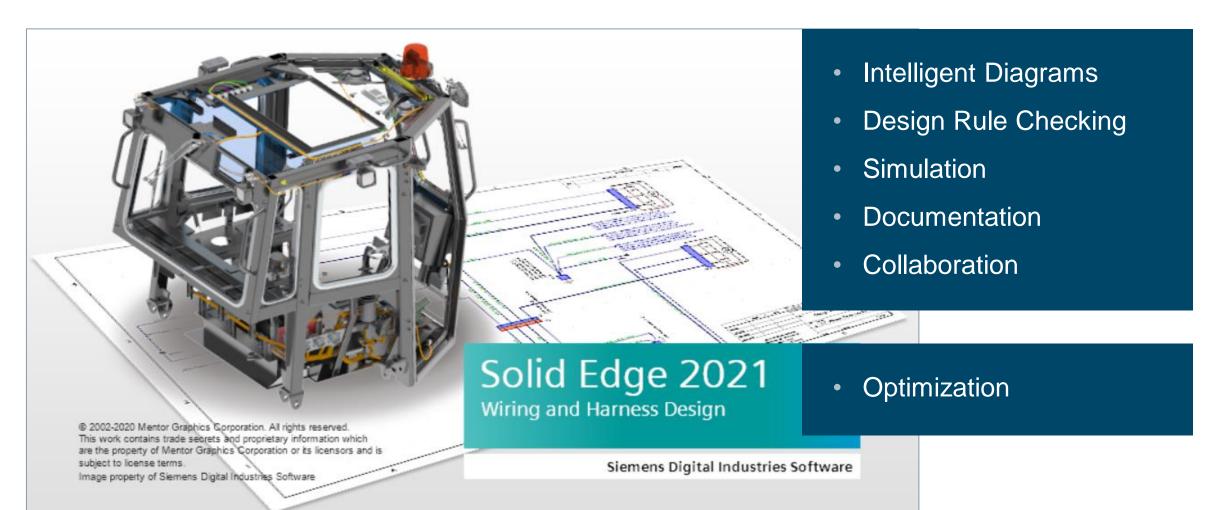
Wiring and Harness Design



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Summary





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Solid Edge Academic Portfolio of Products

Mechanical Design



- Solid Edge Premium
- Solid Edge Classic
- Solid Edge Foundation
- Solid Edge Design & Drafting
- Solid Edge 2D Drafting
- Solid Edge P&ID Design
- Solid Edge Piping Design
- Solid Edge Generative Design Pro
- Solid Edge Model **Based Definition**

Electrical Design



- Solid Edge Electrical Routing
- Solid Edge Wiring Design
- Solid Edge Harness Design
- Solid Edge PCB Collaboration

Simulation



- Solid Edge Premium
- Solid Edge Simulation - Standard • Solid Edge CAM Pro
- Solid Edge Simulation -Advanced
- Simcenter FLOEFD for Solid Edge

Manufacturing



- Solid Edge CAM Pro Foundation
- **Total Machining**
- Solid Edge CAM Pro 5 Axis Milling
- Solid Edge 2D Nesting

Technical Publications



- Solid Edge Illustrations
- Solid Edge 3D Publishing

Data Management



- Solid Edge data management
- Solid Edge Requirements Management
- Solid Edge **Teamcenter** Integration

Cloud Collaboration



 Cloud-based collaboration

Access the Solid Edge Portfolio and Resources



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Thank you.



