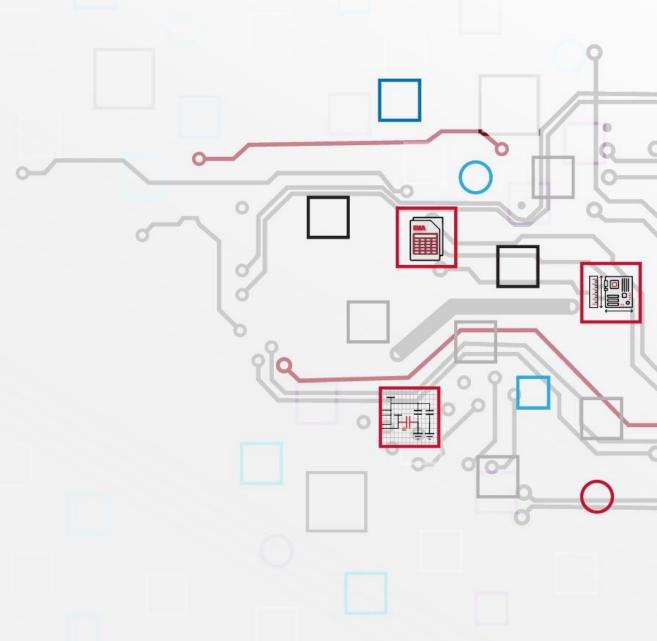


WEBINAR

OrCAD X

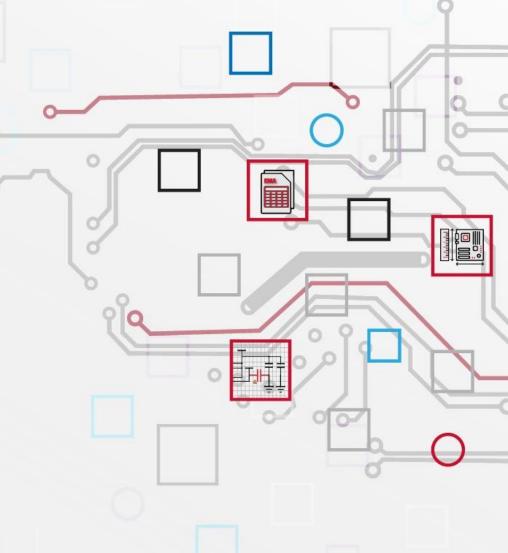
Next Generation PCB Design Platform





Agenda

- Introductions & Housekeeping
- New Partnership
- Common Challenges
- What is OrCAD X?
- Demo
- Recap and Q&A



New Partnership





ECAD Experts

30+ Years in PCB Design

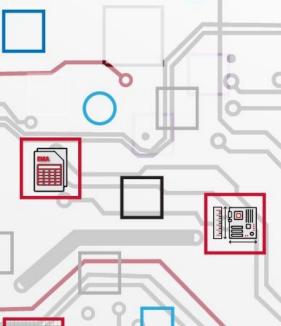
Software – Support - Services



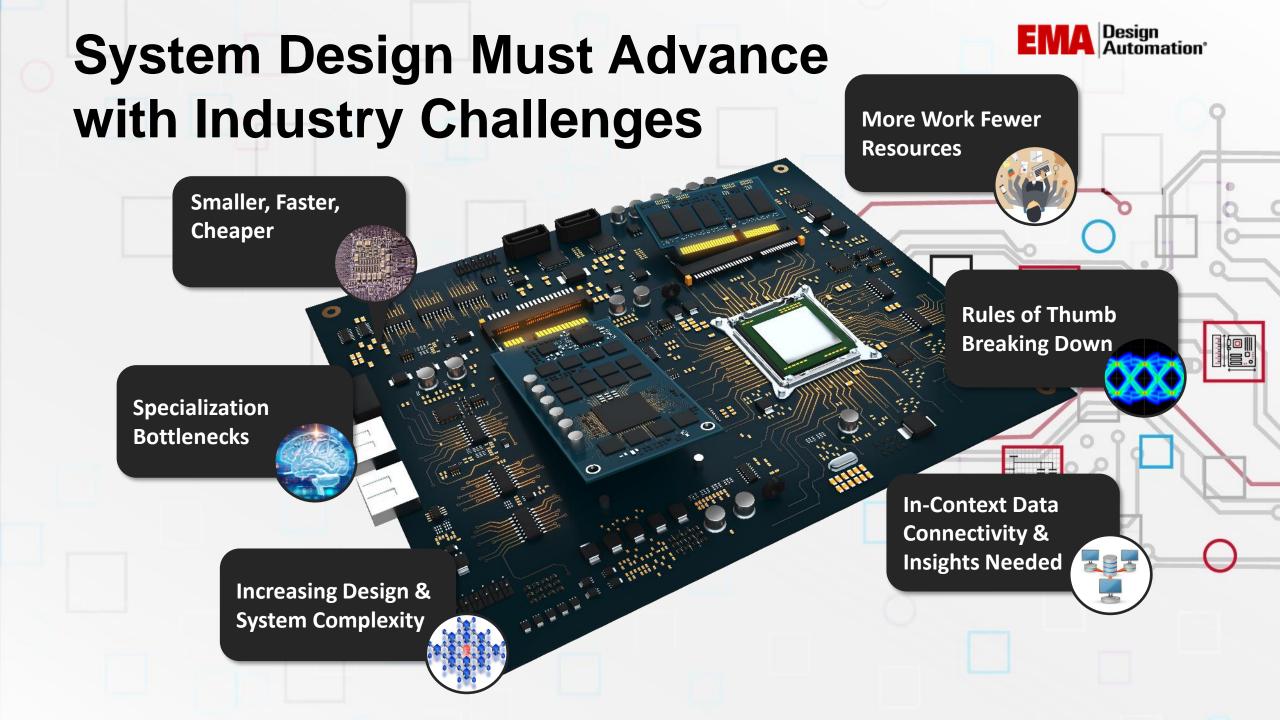
MCAD Experts

30+ Years in Mechanical Design

Software – Support - Services



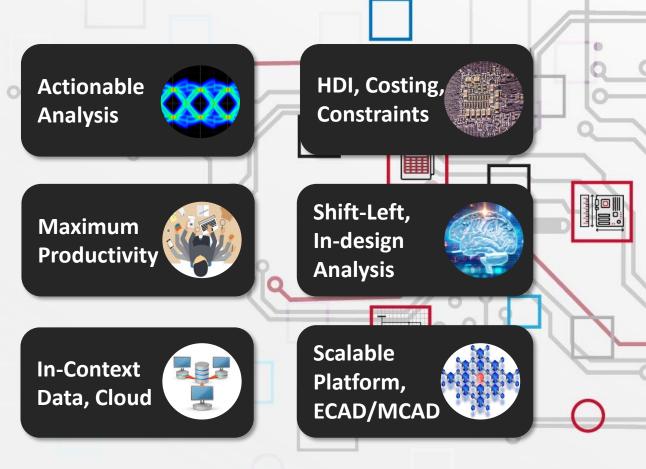
Decades of Combined Electromechanical Software & Design Expertise





What is OrCAD X?





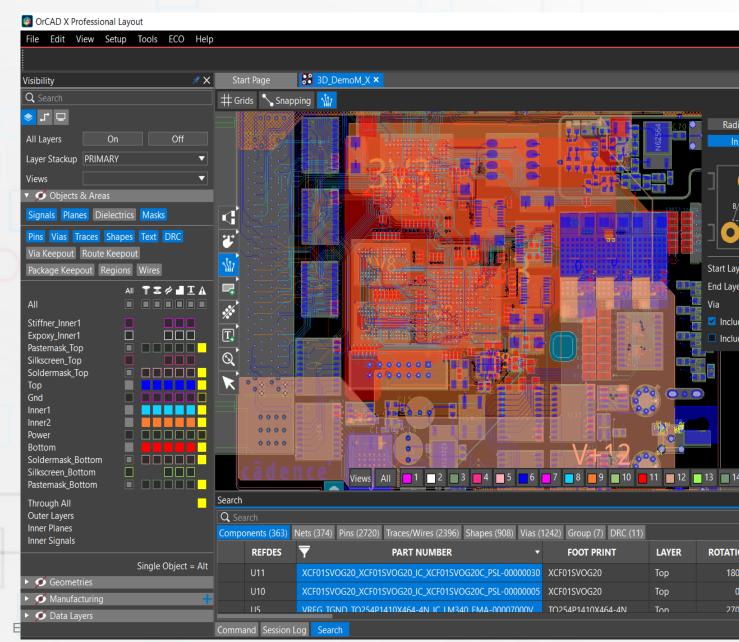
Platform Designed to Address the Current & Future Needs of Designers



LAYOUT & ROUTING

Presto

- New PCB Layout UX
- Focused on productivity & ease of use combined with powerful layout and routing engines of Allegro
- Fully compatible with OrCAD & Allegro PCB Editor (same .brd)
- Optional. Evaluate and leverage at your pace

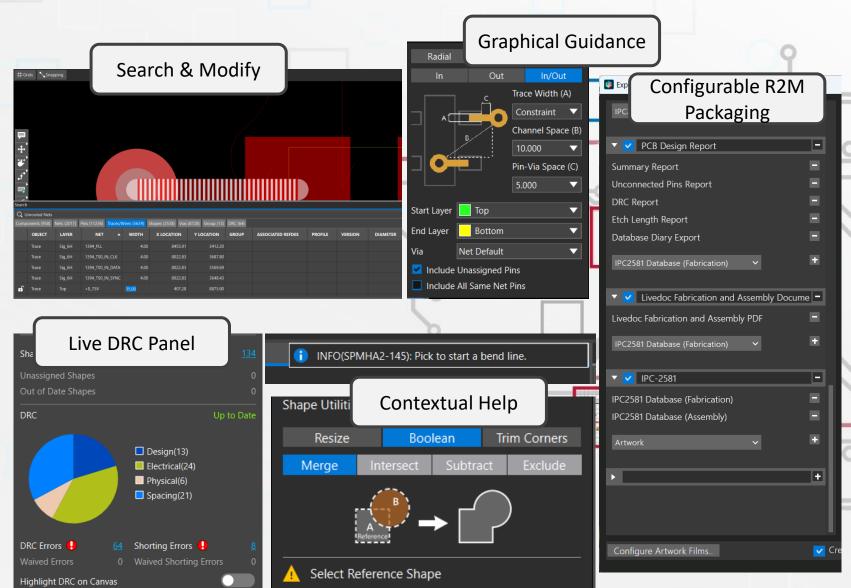




LAYOUT & ROUTING

Presto

- Use model and UI overhaul
- Designed to make information discoverable, data presentation contextual
- Live links to drill into details where applicable
- Built-in search engine with live editing
- Visual help and guidance

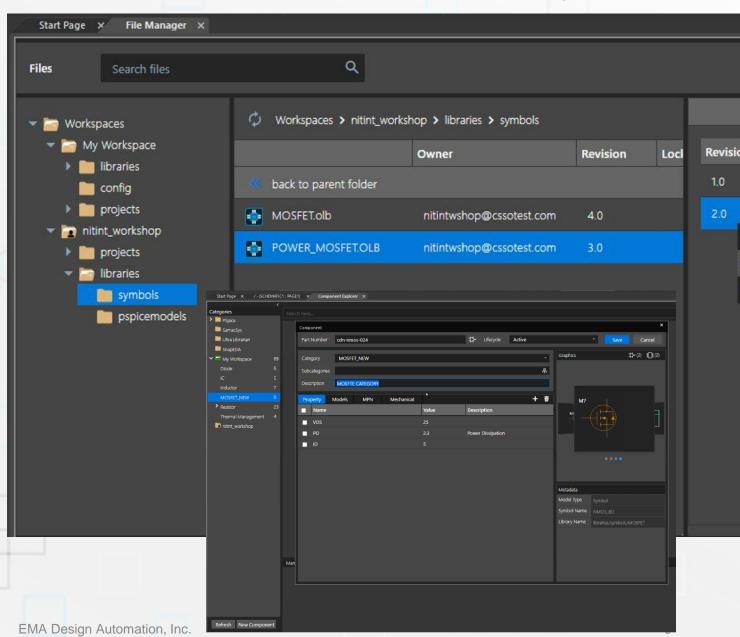




CLOUD

Workspaces

- Cadence Cloud Repository
- Store and share design files and libraries
- No setup and config required

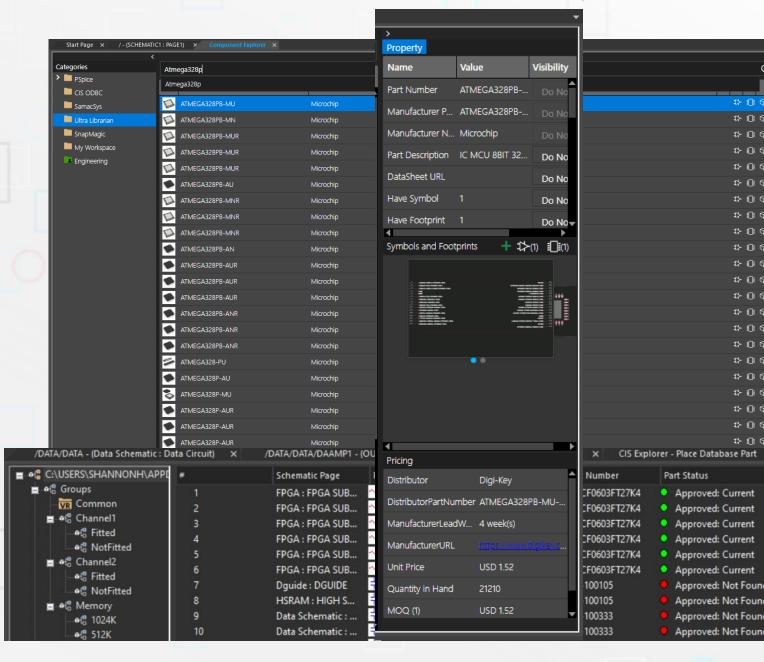




Library & Modeling

Unified Libraries (CIS)

- Geometries & Parametrics
- Discoverable & shareable
- Track status & updates
- Connect to internal & external data sources
- Cloud & On-prem options

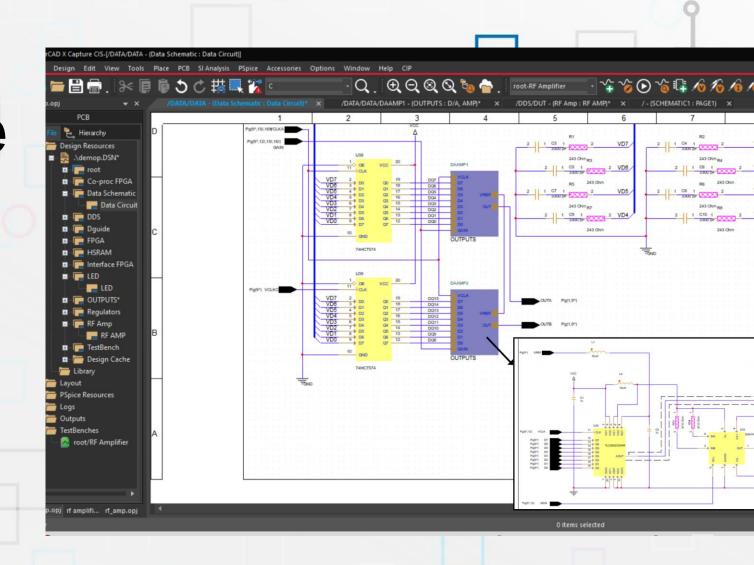




SCHEMATIC CAPTURE

Streamlined Design Capture

- Hierarchical Design
- Constraint Definition
- Real-Time DRC
- Connected to PCB and Simulation







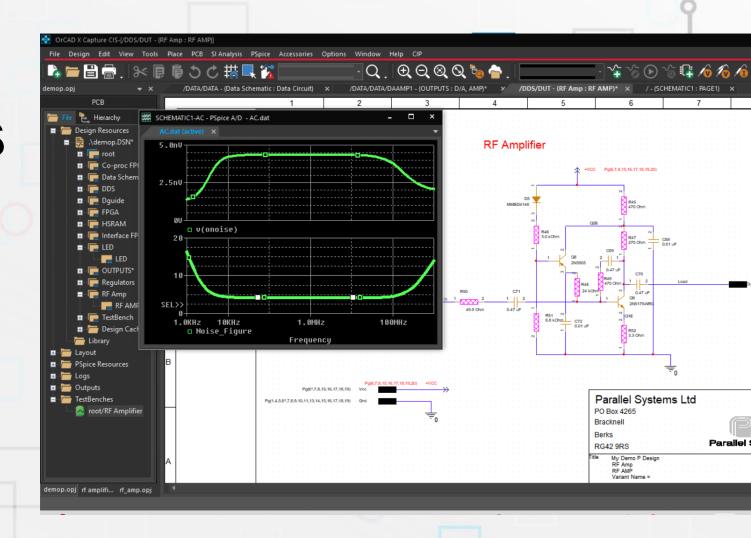




SHIFT LEFT

Embedded SPICE Analysis

- Run SPICE analysis inside your PCB design environment
- PSpice Testbench functionality to partition design for sim & experimentation
- Perform reliability, yield, stress, and optimization analysis

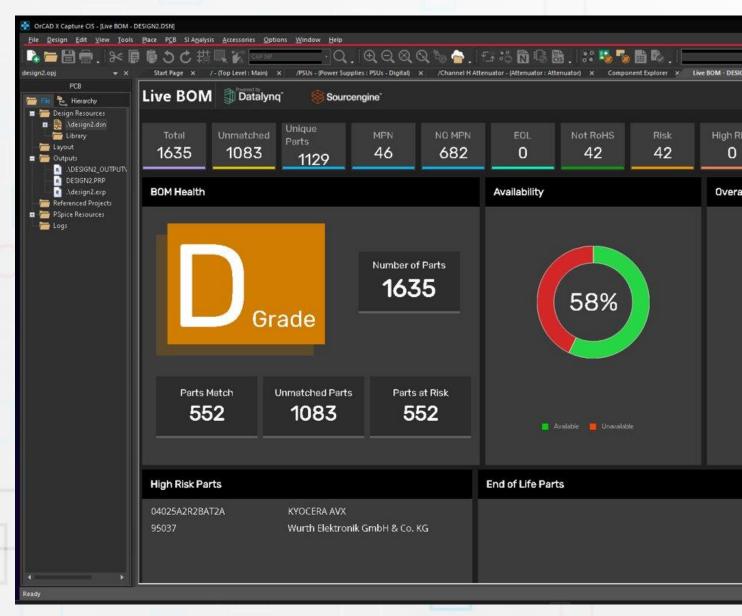




SUPPLY CHAIN

LiveBOM

- On-demand supply chain intelligence
- Reviews and provides a grade
- Swap and update parts quickly as needed
- Ensure a compliant and orderable BOM
- Available via Cloud or On-Prem

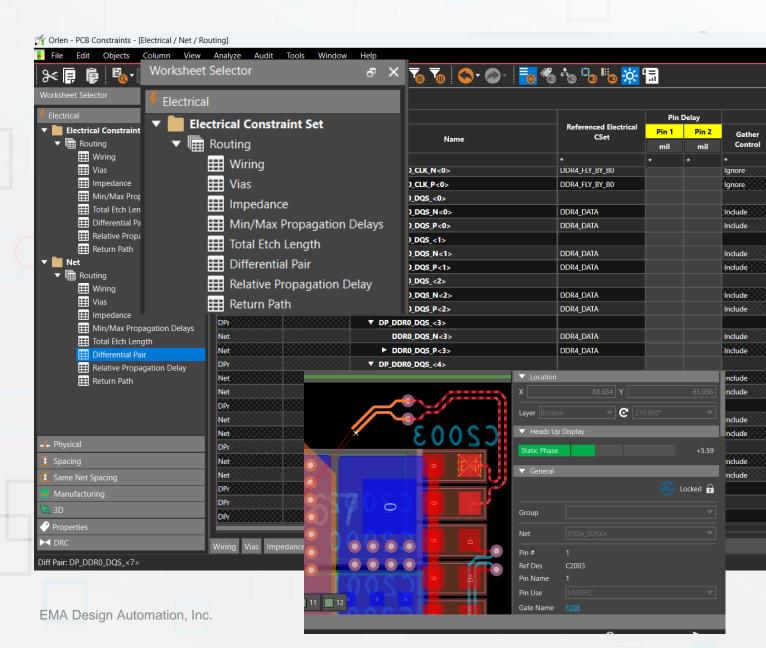




CORRECT BY CONSTRUCTION

Constraint Management

- Shift –Left with Full constraints at all levels
- View and set rules regardless of tier
- Ensure correct by construction design
- Physical, Spacing, Electrical Rules, DFM, 3D Constraints
- Real-Time Feedback

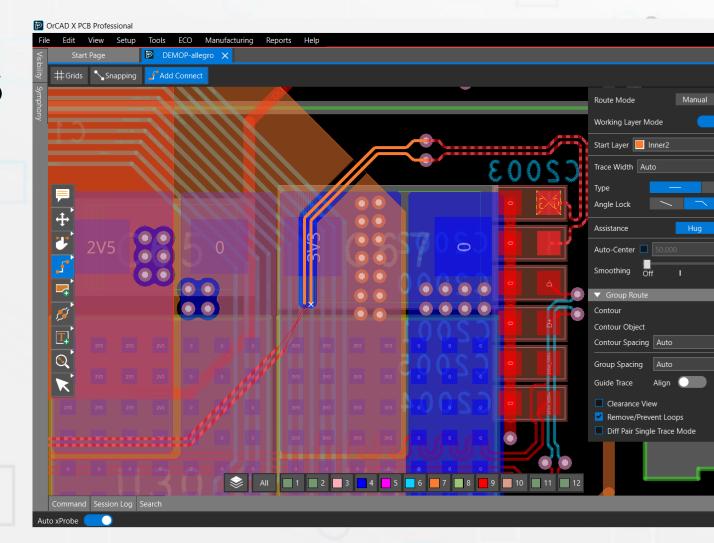




REAL-TIME FEEDBACK

Dynamic Shapes by Default

- All shapes are dynamic self healing by default
- No need to hide or re-pour
- Know impact of shape adjustments as they happen
- Freeze shapes only for special use cases



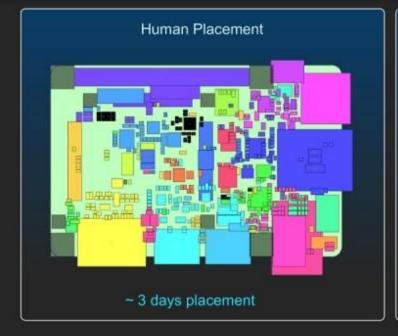


MAXIMUM PRODUCTIVITY

X A COMING SOON

- Al Assisted PCB Design
- Built inside OrCAD X
- Dramatically reduce time for initial placement and plane creation
- Constraint, Schematic, DFM, and electrically aware

Allegro X Al Global Placement Reduce time to design PCBs





cadence

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SHIFT LEFT

In-Design Analysis

- Perform electrical analysis inside the design canvas
- Visual overlays make finding and fixing issues quick & effective
- Analysis to cover:

Impedance

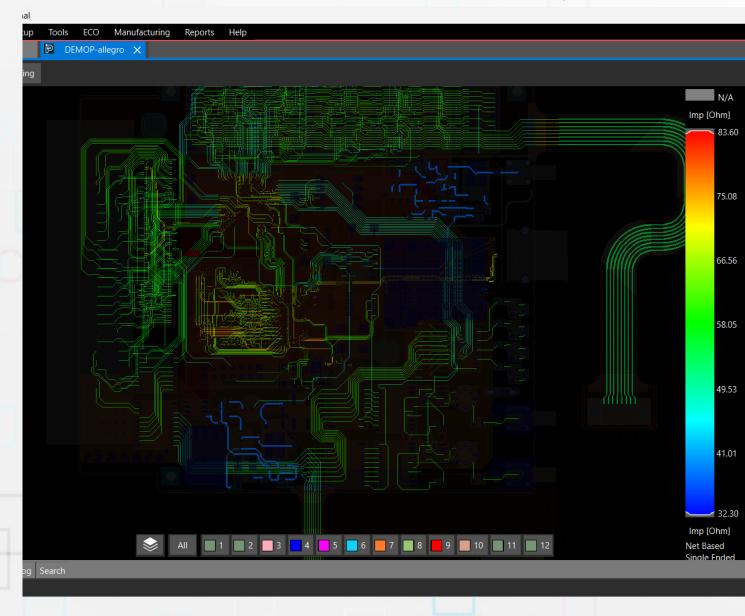
Coupling

IR Drop

Crosstalk

Return path

Thermal (coming soon)

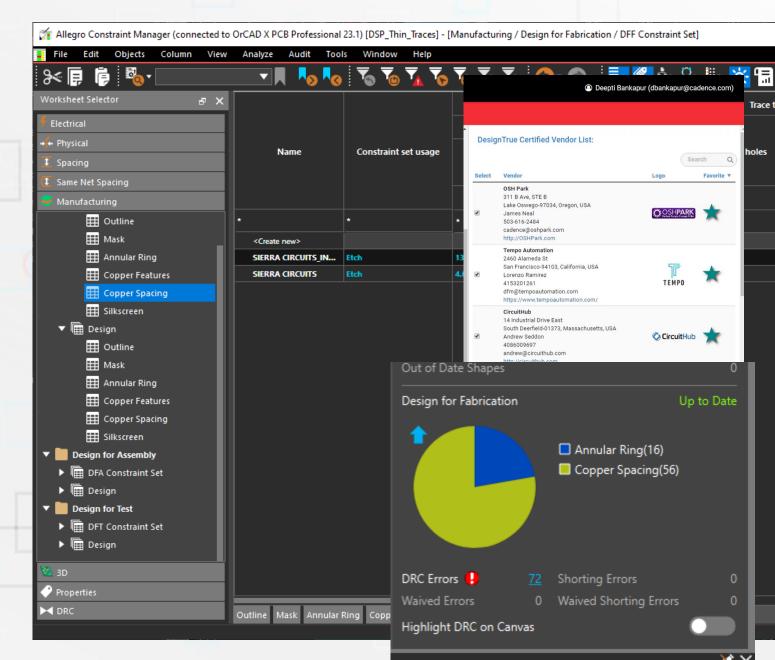




CORRECT BY CONSTRUCTION

DesignTrue DFM

- DFM as you design
- Instantly see issues
- Make RTM a signoff step
- Integrate rules from popular CMs (DesignTrue Portal)

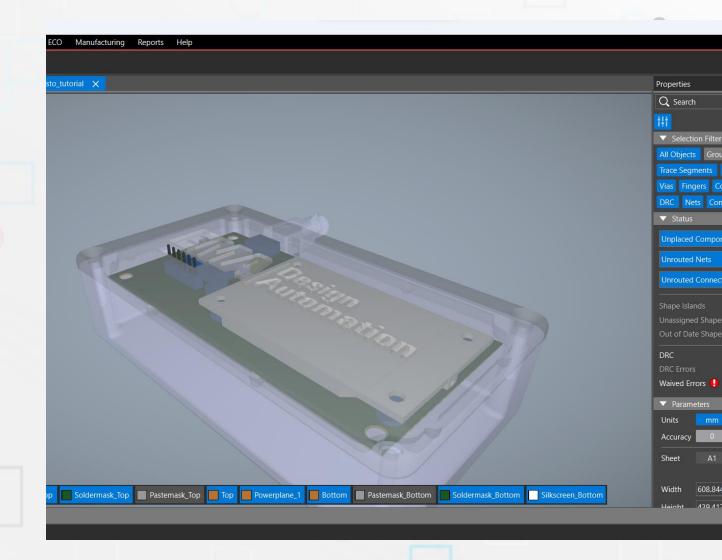




ELECTROMECHANICAL DESIGN

ECAD/MCAD

- New 3D engine, Built for performance
- Real-time 3D constraints
- Import mechanical elements export design for mechanical integration





ELECTROMECHANICAL DESIGN

ECAD/MCAD

- Enhanced ECAD/MCAD Integration
- Dassault Partnership
- MCAD Flows Supported

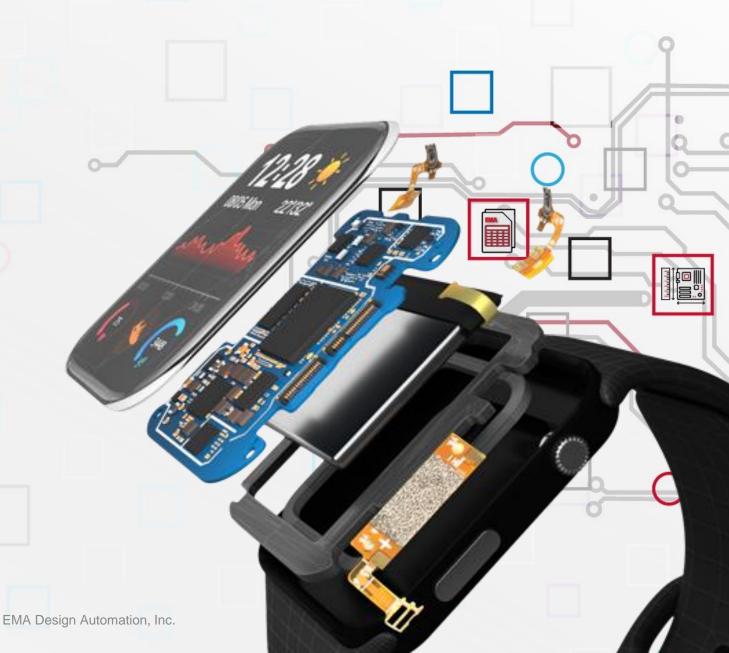










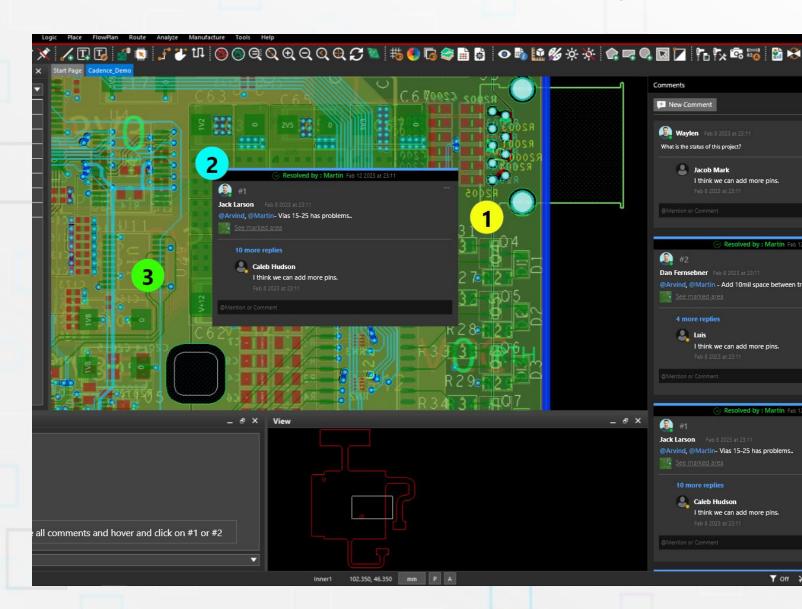




COLLABORATION

Review & Markup

- Embedded Markup Layer
- Like GoogleDocs
- Stored in PCB database
- Commenting, Resolve, history tracking

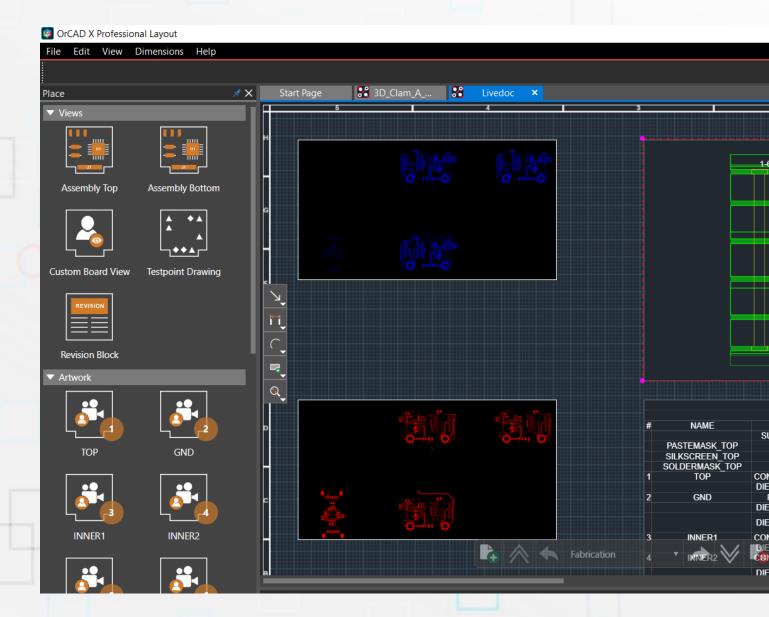




DOCUMENT

LiveDoc

- Automated PCB Documentation
- Live Updates
- Template Driven
- Ensure docs are complete, up to date and ready

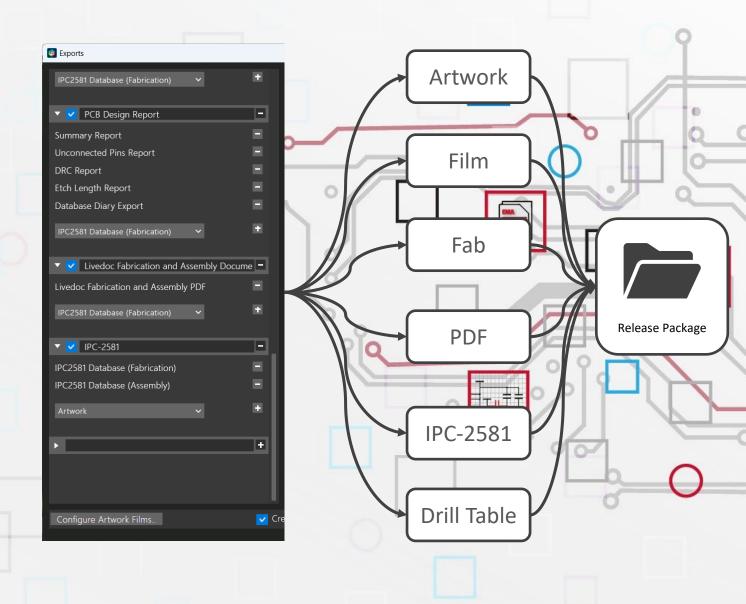




RTM PACKAGE

Release Packager

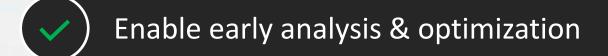
- Define & Customize Release Package
- All files & reports generated and placed in Zip file for delivery
- Template driven, always based on latest design data





OrCAD X Platform Benefits





- Provide in-context data for proactive problem solving
- Reduce / elminate late-stage errors shift left
- () Increase throughput, predictability, & accuracy



Demo



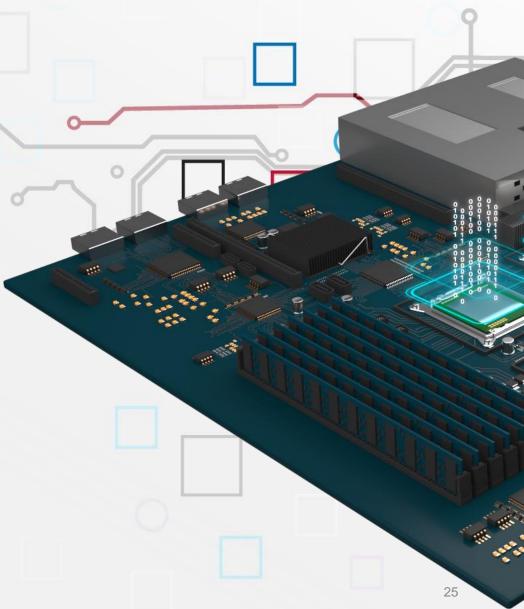


Thank You

Questions?

Contact us at:

info@ema-eda.com | www.ema-eda.com





Backup





What's NeXt

The themes driving Cadence System Design Solutions for the next generation of electronics



MAXIMUM PERFORMANCE

Drive step function performance gains with each release



HIGHEST CAPACITY

Deliver scalable capacity to handle exponentially expanding datasets



SEAMLESS CONNECTIVITY

Enable data integration and collaboration throughout the flow



OPTIMIZED FOR PRODUCTIVITY

Produce a frictionless user experience for maximum throughput



SIGRITY X OrCAD X ALLEGRO X

Optimality X AI JedAI

Cloud/AI/ML ENABLED