

## OrCAD helps Phantom Motion, Inc. Establish a Clear Path to Design Success

### About Phantom Motion, Inc.

Phantom Motion, Inc. is a design firm focused on product development. They are dedicated to taking product ideas from concept through production for commercial companies, large and small. Their customers rely on them to create consistent, manufacturable, quality designs.

### The Problem

The company's president, Vitaliy Degtyarov, has worked for several companies throughout his 20+ year career and spent his fair share of time working with inefficient EDA software which overcomplicated even the simplest tasks. This created more work, led to issues with board correctness, and increased the time it took to complete a board design.

Before OrCAD, he described the push-and-shove routing as, "the biggest nightmare". When he tried to move traces, the previous software would bend them in a way that created multiple instances of the same trace. As you can imagine, this led to even more problems—if he needed to delete the trace altogether, he'd have to remove ALL the instances of the trace created by the software. Simply put, Degtyarov did not have an efficient way to manage the complexity of his designs. Instead, he was manually writing scripts and complex workarounds.

To make matters worse, his old software was often slow and consistently rebooting which drastically hindered his productivity. "I went through this suffering and pain for many years, just kind of small things, but they complicate your life," Degtyarov said. Therefore, when it came time to launch his company, Degtyarov knew he needed a software that would not only help simplify his daily tasks, but could also keep up with the increasing and changing demands of the large companies he worked with.

### OrCAD Creates a Path to Success

He ultimately chose OrCAD PCB Designer Suite, which included OrCAD Capture and PCB Editor. The integration between these two products provides Phantom Motion, Inc. with a complete PCB design flow; it allows them to seamlessly place components and cross-probe between their schematic and PCB designs. OrCAD provides Phantom Motion, Inc with the flexibility and accuracy required to consistently complete high quality, complex designs with fewer iterations and in less time. Now, they have complete control over their designs and have everything they need to complete them on time and on budget. "When I switched to OrCAD, believe it or not, the only limitation I had was my knowledge," Degtyarov said.

Rather than being frustrated with board re-spins or having to address multiple design issues, Phantom Motion, Inc and Degtyarov are confident knowing they are producing high-quality, manufacturable boards the first time. In fact, since using OrCAD, Degtyarov said he has not had any of his designs returned, "when I send [my design] to fab, it always gets manufactured and is exactly what I asked for." Now, by setting constraints within OrCAD, Degtyarov is confident in the software's ability to handle tasks such as these without creating additional, unnecessary work so he can focus on design.

### Sales, Technical Support, and Training

For more information on how OrCAD can help make your design process more efficient, contact EMA Design Automation, a Cadence Channel Partner.

877.362.3321  
[info@ema-eda.com](mailto:info@ema-eda.com)  
[www.ema-eda.com](http://www.ema-eda.com)