HoCFD LLC was founded in Lawrence, Kansas, to develop, market and sell a highly accurate/efficient computational fluid dynamics (CFD) software named hoMusic (High-Order MUlti-physics SImulation Code). Comparing with existing commercial CFD software, hoMusic can deliver more accurate turbulent flow computations using large eddy simulation (LES) in much shorter turnaround time. Additionally, hoCFD LLC can perform consulting services for high-fidelity turbulent flow computation using LES. Because of its high-order accuracy, hoMusic is also capable of directly computing aero-acoustic noise.

hoMusic was licensed from KU, and is based on research conducted by Professor ZJ Wang' group for over a decade. It employs a state-of-the-art high-order method called flux reconstruction (FR) or correction procedure via reconstruction (CPR), which can handle complex geometries and mixed unstructured meshes. Dr. ZJ Wang has been at the forefront of high-order CFD method development for over a decade. He has edited a book, written many review articles, (co-)organized multiple International Workshops on High-Order CFD Methods, and advocated their applications for real world flow problems.