Abstract: This presentation is motivated by the presenters’ work on a project with a group of second grade students in a computer laboratory of Banford Elementary School, Canton, NY. From this project, one goal of which was to provide a capstone experience for a teacher candidate in teaching application-oriented mathematics with technology, the ideas about parallel structures of two universes—the teacher’s and the student’s—that echo Shulman’s structures of signature pedagogy have been developed. The presenters will introduce the notion of computer-assisted signature pedagogy and explore its features through the combined lens of teaching and learning using the concept of Type I/Type II technology integration.