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Customized Off-The-Shelf Technologies for building system platforms for Big Physics experiments

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The current challenges have put even more focus on keeping projects using the latest technology to meet the needs of measurement, diagnostic, and control systems. Using Commercial off-the-shelf (COTS) systems to take advantage of innovations in the computer industry and the hundreds of millions of dollars devoted to R&D –domain experts can now benefit from FPGAs as well as multicore CPUs and GPUs without being specialists on these technologies. Through collaborations between industry and research facilities, engineers can customize these technologies while keeping costs low to achieve faster computing and loop rates.

At this presentation we will give an overview and historic background of platform options and examine the technological tools available today and what's the direction in the future

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