



# Computer Architecture, FPGA, ASIC

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Center for Applied Research  
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# Capabilities

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Get experts in the computer architecture, FPGA and ASIC domains to meet/accelerate your product/project needs at different abstraction levels of your design and development cycle.

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- A vertical blue line with circular endpoints, positioned on the left side of the slide, spanning the height of the list of capabilities.
- Digital IC design flow (Verilog to GDS)
  - Processor design using HDL
  - RTL design and synthesis
  - FPGA-based implementations with Xilinx and Altera platforms
  - Write corresponding firmware in C/C++ for hardware designs
  - Hardware modeling in simulators
  - Interconnect design and implementation
  - Design verification using static, simulation and emulation-based methods
  - Hardware-software co-design



# Tools and Technologies

VIVADO™

ISE  
DESIGN SUITE

XILINX  
VITIS™

QUARTUS  
PRIME  
DESIGN SOFTWARE

cadence  
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intel  
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