Computer System Laboratory

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Optimize and design a system through trade-offs between hardware and software

's important to have a birds-

eye view of an entire system.

Hardware

- We keep creating novel new computer systems!
 - □ We work in both domains of hardware and software for them.
 - Research themes
 - Novel new microprocessor architectures for highperformance / low-power / security
 - New parallel and distributed computing technologies for future generations of supercomputing or for Big Data
 - New communication/storage systems and network device architectures as an infrastructure for mobile

 Or cloud computing

 Parallel Computer

 Environment

 Environment
 - Efficient architectural-level design methodologies for general or specialized systems (including

Parallel Computer

Computer

Environment

Processor

System LSI

system LSI's)