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- Hardware development on FPGA
 - Hardware accelerators (using synthesized code)
 - · Interface to ARM board and on-chip bus
 - Interrupt logic
 - Clocking & reset
 - Optional memory controller (for external DRAM)
 - Diagnostics

ARM software development

- Compile and profile DRM on ARM simulator
- Convert floating-point to fixed-point code and check SNR
- Compile and profile fixed-point DRM on ARM board
- Parallelize software on dual-core platform
- Develop hardware abstraction layer (HAL) and I/O handler
- Develop interrupt handler & hardware drivers

EE382V: SoC Design, Lecture 1

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