



# EECS 373

## Design of Microprocessor-Based Systems

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Lecture 2: Architecture, Assembly, and ABI

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Slides developed in part by  
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R0
R1
R2
R3
R4
R5
R6
R7
R8
R9
R10
R11
R12
R13 (SP)
R14 (LR)
R15 (PC)
xPSR

# Announcements



- Website up
  - <http://www.eecs.umich.edu/~prabal/teaching/eecs373-f11/>
- Lab and office hours posted on-line.
  - **My office hours:** Tuesdays 1:30-3:00 pm in 4773 CSE

- What distinguishes embedded systems?
  - Application-specific
  - Resource-constrained
  - Real-time operations
  - Software runs “forever”
- Technology scaling is driving “embedded everywhere”
  - Microprocessors
  - Memory (RAM and Flash)
  - Imagers (i.e. camera) and MEMS sensors (e.g. accelerometer)
  - Energy storage/generation