

Embedded Systems Laboratory



embedded
systems lab
linköpings
universitet

- 3 senior staff.
- 8 PhD students (two more positions available).
- Last year's research output:
 - 1 PhD disputation
 - 1 Lic thesis
 - 18 publications (2 in prime journals)

-
-
-
-
-
-

Hardware Software

Microprocessor

ASIC

Analog circuit

Sensor

Optical device

Embedded memory

DSP

Network

Source: Stratus Computers



Design of Embedded Systems

- Functionality/requirement capture
- Design space exploration
- Verification, simulation and testing
- Global optimization

Main Research Issues

- System-level specification and modeling.
- Hardware/software codesign.
- System-on-chip techniques.
- Reuse/incremental design.
- Design verification.
- Testing and design for test
- Built-in self test.
