

# WIND: Wireless Networks of Devices

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# Vision

- What?
  - System and protocols for location-dependent, mobile applications of wireless networks, devices, sensors and actuators
- Why?
  - Today's protocols and APIs are inadequate
- How?
  - Invent an Intentional Naming System where names describe *intention* (e.g., attributes of data and entities) a

# Progress Through

## December 1998

- RadioLAN wireless LAN in building
  - Preliminary installation done on part floor
  - Measured throughputs in 5Mbps range
- WIND software
  - INS designed and implemented (preliminary) in Java
  - Intentional NameResolvers resolve and route data
    - Efficient algorithms for name lookups and forwarding
  - Name discovery protocol for tracking

# Six Month Plan

- Self-organizing protocols for Intentional Name Resolvers
  - Avoids manual configuration
  - Bootstrap, neighbor discovery and load management algorithms
- Applications
  - Complete and deploy mobile camera application
  - New applications with other devices (handhelds, TVs, etc.)