Project Overview

- Long-term goal: Context-aware, mobile pervasive computing systems
- Cricket: Indoor location system based on RF and ultrasound
  - Scalable, autonomous, deployable, facilitates privacy
- Intentional Naming System: Resource discovery
Progress Through December 2002

• Progress on auto-configuration algorithm
  – Decentralized algo. with local node behavior to yield global configuration
  – Uses ball-and-springs model inspired by physics

• Cricket v2 design: will send to fab in two months

• Porting general-purpose sensor software platform (TinyOS) to Cricket
Research Plan for the Next Six Months

• Prove properties and conduct simulations of autoconf algorithms
  – Start implementation

• Monitoring and control applications for large-scale sensor information processing: Investigate energy-efficient routing

• Complete TinyOS port to Cricket