I. Idea
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VII. Questions
• Cell Phone to Landline System
  • Basic cell phone operations from landline phone
    – Send/Receive calls from landline via cell phone
  • Potential to develop additional features
  • Replace or co-exist with landline system
Design Norms

• Integrity
  – Easy to use
  – Maintain standard handset
  – Integrate cell phone features

• Stewardship
  – Utilization of existing systems
  – Savings over multiple phone bills
  – Cost of device

• Trust
  – Quality of Product
Objectives

• Semester Objective
  – Use PC to route cell phone calls
    • Minimum standard of success

• Ideal Semester Objective
  – Use dev board to create a stand alone prototype
    • A+ standard of success

• Ideal Product
  – Added functionality
    • Text Messaging
    • Voice Activation
- AsteriskNow
  - Custom Linux distribution developed by Digium
    - Most current version of Asterisk
    - Most well documented
    - Works with Chan-Mobile
- Chan-Mobile
  - Asterisk channel driver
    - Use cell phone as FXO/FXS port
<table>
<thead>
<tr>
<th>Obstacles</th>
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<tr>
<td>• AsteriskNOW over PBX in a Flash</td>
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<td>• Chan-Mobile software patch</td>
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<td>• Landline Connectivity</td>
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<td>• Tradeoffs: Good tutorials in PBX in a Flash, but mostly IP phone oriented</td>
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<td>• Easily allow for connectivity between software and cell phone, BlueZ Bluetooth protocol stack</td>
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<td>• The Weasel Incident</td>
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Progress

- Completed
  - Operating System
    - AsteriskNow
      - Installed and configured
  - Software
    - Asterisk
      - “Hello World” test
      - Dial tone test
• In Progress
  – Hardware
    • Development Board
    • Operating System
  – Software
    • Chan-Mobile
    • Dial Plan