To assemble a laptop orchestra using open source software, self-constructed speakers, and netbooks for a minimal cost.

**Project Goals:**
- Design and build a website
- Build hemispherical speakers
- Construct software patches in Pure Data

**Building the website:**
- PR elements
  - Website, logo, communications
- Blog
- Information
- Contact
- Central location for media, pictures, and video
- Instructables

**Building the sixteen “hemis”:**
- Speakers, cables, amps
- Amp modifications
- Speaker testing
- Cable testing
- Assembly

**Building the Pure Data patches:**
- Designing the look and function of the interface
- Researching an appropriate network communication
- Implementing the design abstractions
  - Monitor
  - Conductor
  - Composer

**Conclusion:**
- 16 hemispherical speakers were built
- Website is available at i2ork.music.vt.edu
- All software patches are complete

**Future Work:**
- Ensemble class open to all majors.
- Engagement with HCI
- Nucleus for other research projects, such as cloud computing or wearable computing
- Youth education