

The Making of L2ork

The Virginia Tech Linux Laptop Orchestra

Dr. Ico Bukvic, Michael Matthews, Maya Renfro, Andy Wood

Challenge:

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)



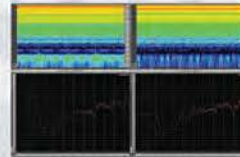
- Blog
- Information
- Contact



- Central location for media, pictures, and video
- Instructables

Building the sixteen "hemis":

- Speakers, cables, amps
- Amp modifications
- Speaker testing
- Cable testing
- Assembly



Contributors

L2ork Principal Investigators

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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 l2ork.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