Symphonic Harmonics

- Neereja Sundaresan
- Surekha Muralidharan
- Vikram Rajkumar
- Wayne Chiang
Concept **Motivation**

- Portable, interactive music keyboard
- Many instruments with a variety of ways to play
- Composing tool that keeps track of notes played
- Interfaces with Android for visual display
- Rollable, various sensors (pressure, accelerometers etc)
Competitive Analysis

- Yamaha Keyboards
  - Multiple instruments, sound recording
  - Reviews: Bulky, limited mobility, no phone interfacing

- Roll-able piano keyboards
  - Highly portable, popular
  - Reviews: limited sounds, hard to press, limited/no composing aids or feedback, no phone interfacing

- Smartphone piano applications
  - Good sound quality and recording capabilities
  - Reviews: Lacks tactility, not realistic size for composing, not standalone
Technical Specifications

- Arduino Bluetooth
- Pressure sensors/buttons
- Accelerometers
- Speakers
- Fabric mat
- Multi-color LEDs