Team 6 at a glance

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Team 6 → Market → Idea → Norms → Block Diagram → Questions
I.  Market
II.  Idea
III.  Design Norms
IV.  Block Diagram
V.  Questions
Mechanical Stethoscopes
• Chest Piece: Metal Casing with Diaphragm
• Ear Piece: hollow tubing with spring

Electrical Stethoscopes
• Preserve look
• Bulky and Heavy
• IR data Transfer
• Normal Heart
• Heart Murmur
• iPod like device
• Ability to record
• USB file transfer
• Interchangeable Chest Pieces
Design Goals

• Operate a full shift without recharging
• Store 20 recordings of 1 minute each
• Mp3 file compression
• Audio Frequency Shifting
• Standard Headphones
• Durable
Design Norms

• Transparent: must be easy to use, no technical experience required
• Stewardship: must protect the user, patient, and environment. RoHS, Latex Free, HIPAA, ISO
• Integrity: must Provide an accurate representation of the sounds produced by the body
Technical Block Diagram

Rhythm Reloaded – Team 6

Tuesday, September 25, 2007

Inputs
- Chest piece
- Buttons

Internal
- CODEC
- MicroProcessor
- Power Supply
- DSP
- Memory Interface
  - RAM
  - FLASH
  - USB Slave

Outputs
- Headphones
- LCD Screen

MyBeat
Technical Block Diagram
Questions?