MODIFYING ZENS

Getting more out of a problematic instrument.
Driving Question

How can we simplify and modify an existing system to fit our needs and procedures?
What is the Zen

• Started out as a joint collaboration project

• 32 bit 5 channel system with modular design

• Power hungry – 9 watts
Hardware Improvements

• Simplify problematic wiring harness
Hardware Improvements (cont.)

- Internal power configuration
- Low Voltage Protection

Diagram:
- Battery A
- Zen
- Induction Coils
- Electrodes
Hardware Improvements (cont.)

- Shielded signal wires
- Removed front end complexity
- Lightning Protection
Software Improvements

- Windows to OS X conversation
  - Fit the current NGF workflow
  - Processing Software

- Simplify and minimize chances for user errors
ANY questions?