

Engineering Update

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Going on Vacation Next Week

- I'll be in Hawaii from May 8th to the 16th
- I'll be available via sporadic email – **not skype**
- Contact me ASAP with purchase requests

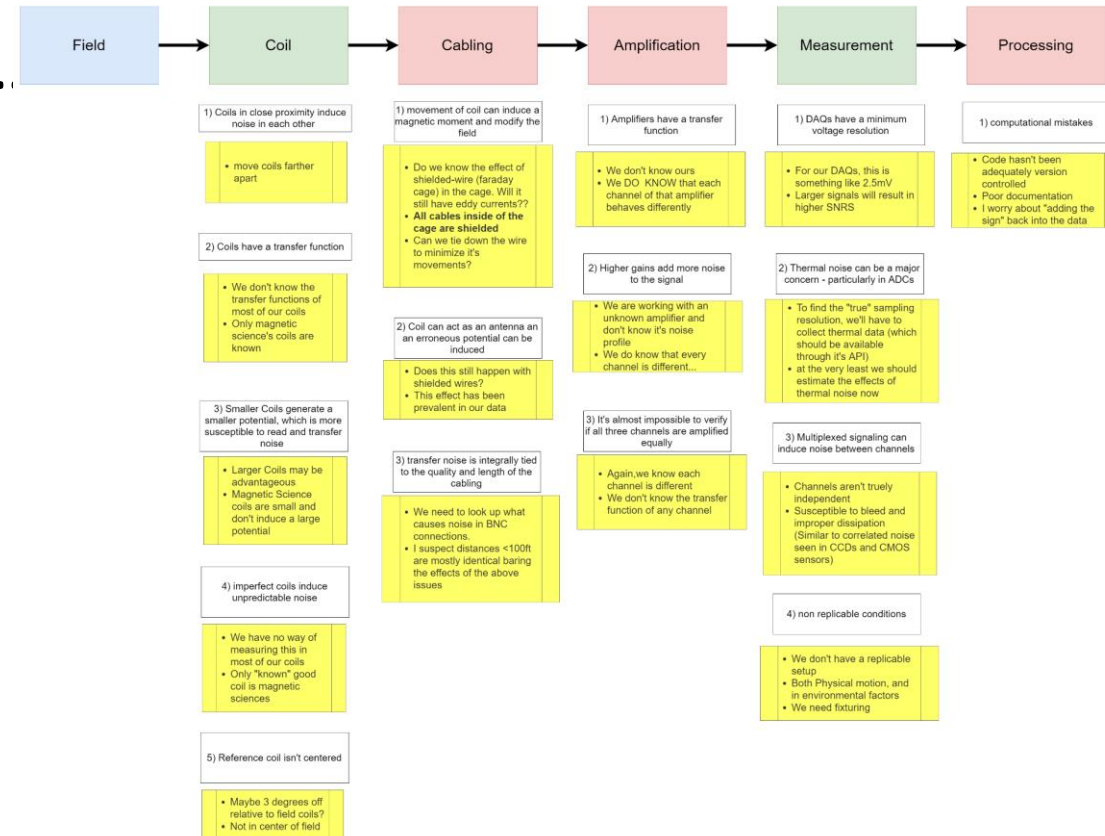
Last week

- Lot of frantic running around
- Little or no work on bitebar station
- Learned a lot about the DDPI
 - Much more confident in my ability to fix it
- Research into DDPI stage firmware
- New coils and new materials

Short Coil Update

- Little substantive progress on the coil in weeks..
 - Non-replicable setup – can't do apples-apples comparisons
 - *Need a change of strategy*
- Goal this week is “**learning**”, not “**trying**”
 - fritzing diagrams of electronics
 - Write and follow proper testing procedure
 - Make sure tests are replicable
 - Test one source of noise at a time
 - Documenting/commenting processing code
- Especially important for me because I never touched the coil in Boston

Possible Sources of Error in Coil Data Reconstruction



Top Priorities

1. Evaluating and Interviewing Candidates
2. Coil Calibration restart
3. Bite Bar Fabrication
 - Seems like there is an immediate need for new ones
 - This will be a learning process
4. DDPI safety
 - There isn't a perfect or quick solution to this
 - Best short term solution is training

Active Projects

High Priority

- Interviewing Candidates
- Learning about the coil and ensuring due diligence in testing
- DDPI safety endswitch
 - Should be able to use piezoelectric pressure pads. Circuit is fairly straightforward

Low Priority

- Documentation (this is just a perpetual item)
- Binocular DDPI stage
 - Jon is almost done with the 2nd layer
- New Bitebar Station
 - Design is Done except for the bitebar mount + headrest
 - Ready to start ordering components
- Bitflow Framegrabber testing with Ruei
 - New motherboards are in

Backburner

- Eyeris Driver
- Eyeris & Insight Gstreamer integration