

ECGR4161 - Extra Notes - 3/4/09 (1)

Design Review

- 1) Materials (drawings, documentation, code listings, etc.) made available before the review 2-7 days.
- 2) Purpose → ensure quality of design.
- 3) Ensure requirements are met.
- 4) Be constructive, not destructive.
- 5) How it works:
 - Author make presentation (1)
 - Moderator → each doc (2)
 - Recorder - write down all error, questions, etc. (3)
 - Report →
 - Subject Matter expert (4)

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Quality is:

(2)

- A) Defining requirements that represent what you really want.
- B) The design meets the requirements.
- C) Design is correct.
- D) Is it buildable?
- E) Is it built correctly?
- F) Do you "test" for quality?

Reqs: The device shall:

- 1) Drive 2 channels of motors.
- 2) Source 8A max on each channel.
- 3) Drive 2 motors, each channel.
- 4) Remove excess heat w/sinks or cover.
- 5) Be able to control motor direction.

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(3)

- 6) Able to be built by students.
- 7) ~~the~~ have a single sided PCB
ntable by lab tech.

