

Lightning Riders
Team Meeting Minutes 2/21/08
By: Brian Bak

1. Website

- Web space purchased for team site. <http://www.ndlightningriders.com>
- A blog is being setup at <http://www.ndlightningriders.com/update>
- The blog will have user names as ND netid's and the initial password also being the ND netid

2. Battery Pack

- Batteries have arrived.
- Battery mounting system and terminal contacts are being designed.
- The goal is to have batteries that are easily removed while maintaining safety.
- Screw on cables for terminal connections are being looked at as the most secure way of connecting batteries.

3. Mechanical

- Motor mount has been welded onto bike frame such that the motor and shaft connection can be removed.
- Metal for battery mount is being acquired to build battery-mounting system.

4. Battery Charging Circuit

- Parts need to be picked up from EE office.
- Circuit should work on a PCB with thyristor connections at the edge of the board.
- Thyristor expected to take about 10A worth of current.
- Battery feedback needs to be decided between going through uChip or charging circuit.
- Current sensors placed at output of thyristor circuit.
- All circuits should be ordered on a single PCB and then be cut up.

5. User Interface

- Interface is now able to control a digital potentiometer.
- Work is being done on A to D conversion for multiplexer.
- Need to determine whether input signals are $0 \Rightarrow V+$ or $V- \Rightarrow V+$

6. Demonstration of subsystems is scheduled for 10am on Thursday, February 28, 2008.