





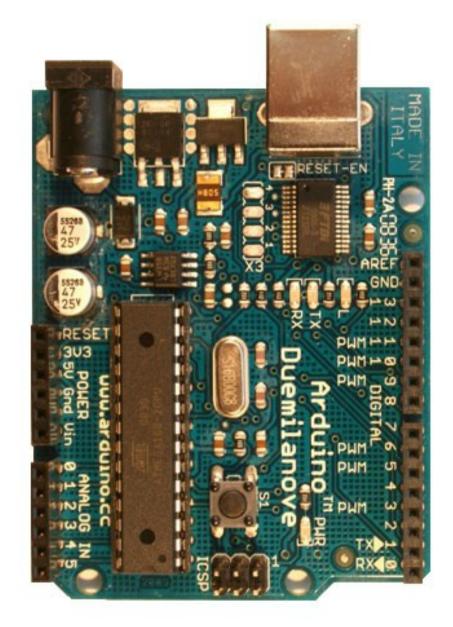
Engineering Hurdles

- ~140 ft from computer
- USB has a max length of 15 m
- Wires have a hard time turning around 360° repeatedly
- Things spin best when balanced
- Budget of \$0



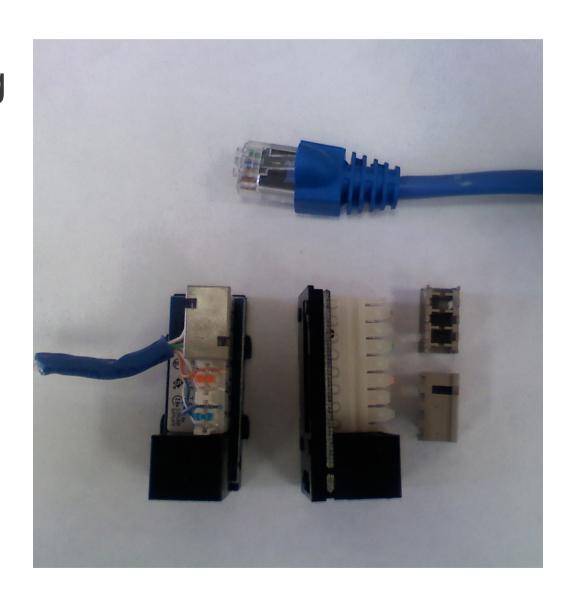
What the Design Features

- Relative wind speed and absolute wind direction output at 10Hz
- Data collection and logging on a remote computer using Labview
- Arduino



Connections

- Most time consuming part of the project
- Used Cat5 cable and RJ-45 jacks
 - Both are cheap and available



What I Have Learned

- Basic C programming
- The basics of electronic communication
- Instrument design

