

Attic Environmental Control^{5/21/12}

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Problem Definition

- Statement: Black mold is a big problem that can cause a lot of damage. We want a fan that will kick on when the conditions in the attic promote mold growth.
- Scope: The fan turns on at 30% power at 95°F and up to 100% power at 113°F. We will be researching conditions in which black mold grows and how to prevent it
- Schedule: A working temperature controlled fan by 6/12/12
- Resources: Clark College, web, Electronic Project's website

Solution Specifications

- Solution Block Diagram
- Flow chart
- Schematics

Competitive Analysis

Our attic fan uses PWM to regulate fan speeds starting at a lower temperature. We want to eventually, through research find out what kind of conditions promote mold growth. And then find out which conditions eliminate growth. (light, air flow, heat, ect.)

Potential Applications

- In attic spaces or any where that gets really hot.
- Environments conducive to mold growth

Future Improvement Ideas

- We might consider using the heat from the attic to heat other parts of the house.
- Actually getting to the point where we put a light, heater, or simply use fan to eliminate conditions that promote mold growth.

