

# DC Fan Controller Senior Design Team 5



Joshua  
Haase



Peter  
Schachtschneider



David  
Ralston



Nishan  
Abraham



Caleb  
Olla



Kiel  
Cruely

# DC Fan Controller

- **Product/Project Description**
  - Programmable ambient temperature setting and speed setting.
  - One PCB with integrated Speed Sensor and Display. Temperature Sensor and Fan are external to package.
- **Key Features and/or Operating Modes**
  - Touchscreen interface displays ambient temperature and fan speed
  - User Programmable settings

# Key Requirements

- **Temperature Accuracy :  $\pm 5^{\circ}$  C**
- **Fan Speed Resolution:  $\pm 100$  RPM for a 25,000 rated RPM fan**
- **Interface Features:**
  - set speed and temperature
  - display current speed and temperature
- **Low Power Consumption**
- **Operates from  $0^{\circ}$ C to  $70^{\circ}$ C**

# Advanced Block Diagram

