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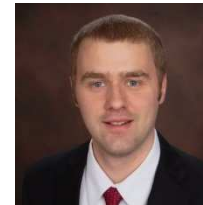
EE-595

Home Weather Station

Section 801; Team 1



- Timothy J. Strandt



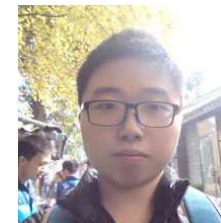
- Mark Vygoder



- Guangyang Zhou



- Da Chen



- Joe Justus



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EE-595

Home Weather Station

Description

- Purpose of Product – Provide users with convenient access to the weather where they live.
- Feature 1 – Wireless Bluetooth Remote Sensor Module
- Feature 2 – Sensor Module has Long Life Battery
- Feature 3 – Sensor Module Charged by Solar Panel
- Market – United States of America

EE-595

Key Requirements

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- **Cost**
 - Sales Price: \$300, Component Cost: \$80, Assembly & Test Costs: \$50
- **Environment**
 - Indoor/Outdoor, Stationary
 - Operating Temp Range: -45 to 50 *C
 - Operating Humidity Range: 0-95% Relative Humidity
- **Power Input(s)**
 - Residential AC Power: 102-132VAC @ 1A
 - Battery Power: Lead Acid, 9V @ 1A
- **Major Functions, Quantities Measured, Displayed**
 - Functions: On, Off, Standby, Update Values
 - Quantities: Temperature (+/- 1-2 *F), Wind Speed (+/- 2-4 MPH), Wind Direction (+/- 3-5*), Humidity (0-95 %), Pressure (0.5-1.5 Bar)

EE-595 Block Diagram

Signal Legend

- Power
- Analog
- Digital

