

# PDR Presentation

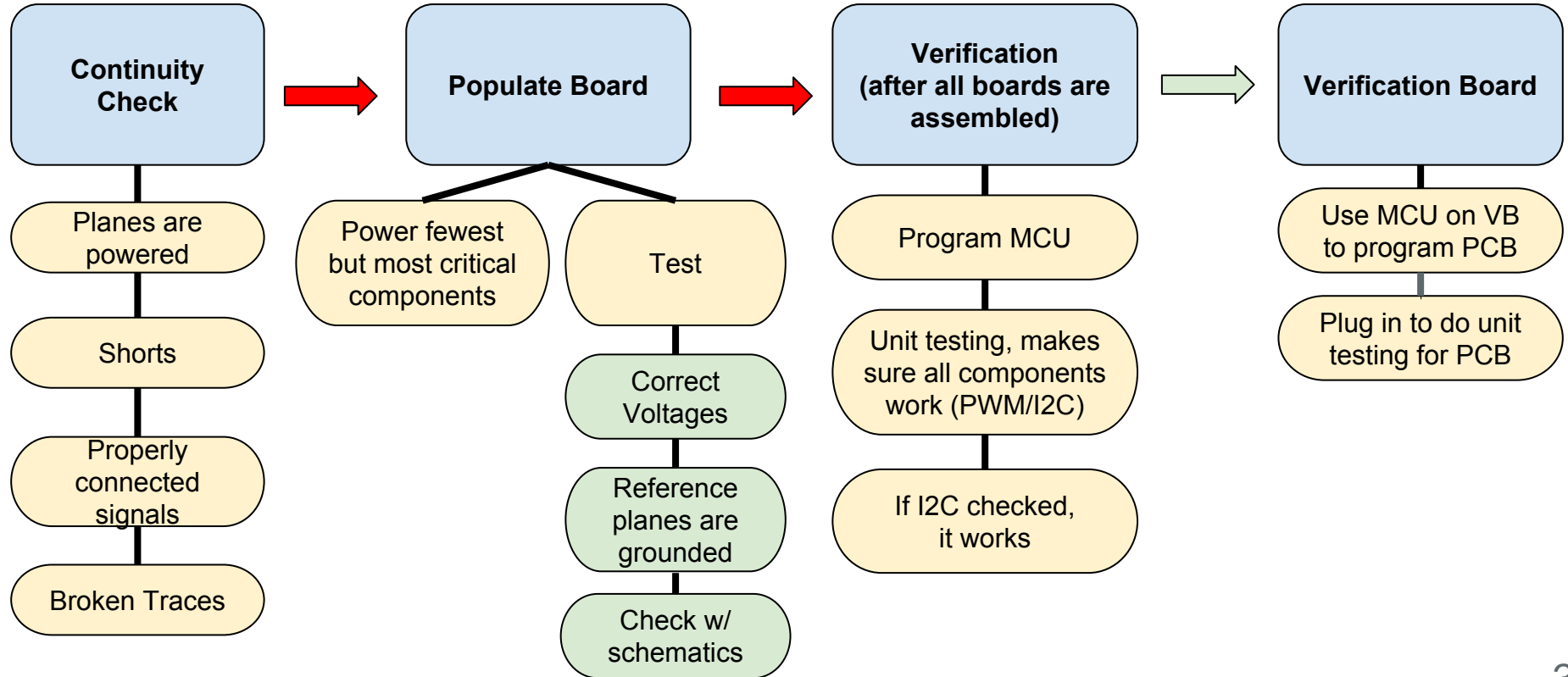
Verification Subsystem

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# Overview

- Block Diagram
- Problems Experienced
- Progress
  - Research
  - Testing Plans
  - Verification Board
- Unfinished Business

# Block Diagram



## Problems Experienced

# Defining goals & expectations



# Progress

- Research
- Testing Plans
- Verification Board



# Research

- Apple weather sensor module
  - Pyranometer (solar irradiance sensor)
  - Barometric Pressure Sensor
  - Humidity Sensor
  - GPS Module
- MCU to program ATmega328P-PU
- Testing protocol
  - Debugging



# Testing Plans

- Google Drive documentation
  - Easier to share, edit, & collaborate
- General plan for approach
  - Began checklist for quality assurance
- Began documentation for testing procedures
  - Unpopulated PCB
  - Populated PCB



# Verification Board

- Refined our expectations
  - Will require firmware
  - Unit testing program for Apple
    - Powers on
    - Checks MCU programmability
    - Checks I2C functionality
      - And possibly other functions of MCU





# Unfinished Business

- EAGLE Tutorials
- MCU research for VB
  - Compatible with ATmega328P-PU
  - Make parts on Eagle
- Work with Apple Team
  - Verify components being used



Thank you!