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graph TD
    Battery[Battery] --> PA_Reg[406 PA regulator]
    Battery --> FET_Switch[FET switch]
    Battery --> 3v3_Reg[3v3 switching regulator]
    PA_Reg --> PA_Driver[406 PA & Driver]
    FET_Switch --> PA_Driver
    FET_Switch --> 3v3_Reg
    3v3_Reg --> Micro_controller[Micro-controller  
121.5 Osc/Driver  
406 PLL  
Red/Green LED's]
    3v3_Reg --> LED_Strobe[121.5 PA LED Strobe]
    3v3_Reg --> LED_Drivers[Red/ Green LED Drivers]
    LED_Drivers --> LEDs[LED's]
    Micro_controller --> FET_Switch
    Micro_controller --> LED_Drivers
    Micro_controller --> Buzzer_Driver[Buzzer Driver]
    Buzzer_Driver --> Buzzer[Buzzer]
    Micro_controller --> 121.5_Osc[121.5 Oscillator/ Driver]
    121.5_Osc --> PA1[PA]
    Micro_controller --> Phase_Mod[Phase Modulator]
    Phase_Mod --> 406_PLL[406 Phase Locked Loop]
    TCXO[TCXO] --> 406_PLL
    406_PLL --> Driver[Driver]
    Driver --> PA2[PA]
    PA_Driver --> PA2
    PA2 --> Diplexer[Diplexer]
    121.5_Osc --> Diplexer
    Diplexer --> ATU[ATU]
    ATU --> Transmit_Antenna[Transmit Antenna]
    Diplexer --> Detector[Detector]
    Micro_controller -- Test --> Micro_controller
    Micro_controller -- Latch --> Micro_controller
    Micro_controller --> PA_Driver_OnOff[PA/Driver On/Off control]
    PA_Driver_OnOff --> Driver
    PA_Driver_OnOff --> PA2
    PA_Driver_OnOff --> Micro_controller
    Control_Circuits[Control Circuits] -- ON --> FET_Switch
    Control_Circuits -- TEST --> FET_Switch
  
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