Block Diagram -- Team 201 Isaiah Probe Plate A PWM 5V 1.5A Voltage EXCITE digital, 1 Regulator Microchip PIC18F57Q43 Curiosity Nano pin, 5 V RB1 PWM Pin1 Op-Amp Buffer AC Coupling analog (0-5V, 1 Pin) RA0 MCP6001 Capacitor 100 nF ADC1 analog in, 1 pin PWM RC Low Pass PWM 1k Ohm Limit/ESD Digital I/O Schottky diode BAT 54 RA1 RB2 RC4 Probe Plate B SENSE Analog 9V 3A Unregulated 2 3 5 6 7 8 Power Supply digital analog connector 1