Block Diagram -- Team 205:
INPUT/OUTPUT(Sam Burns)

5V 1.5A Voltage Regulator Manufacturer Part # UA7905CKCS

Op Amp Manufacturer Part # MCP6004-I/P-ND

analog (0-5V, 1 Pin)

Potentiometer Manufacturer Part #P160KN2

analog (0-5V, 1 Pin)

Microchip PIC18F57Q43 Curiosity Nano

RA0 ADC1

ADC2 RA2

RA1 DAC1

ADC3 RB0

Digital I/O

RD1 | RD2 | RD3 | RF6 | RF7

analog (0-5V, 1 Pin)

Button 1 (ON/OFF)

digital/parallel (5V, 1 Pin)

Button 2 (Mode)

digital/parallel (5V, 1 Pin)

Button 3 (reset)

digital/parallel (5V, 1 Pin)

digital/parallel (5V, 1 Pin)

analog (0-5V, 1 Pin)

analog (0-5V, 1 Pin)

digital/parallel (5V, 1 Pin)

Power | digital (5v, 1 Pin)

Ground | digital (5V, 1 Pin)

Power | digital (5v, 1 Pin)

Ground | digital (5V, 1 Pin)

Power | digital (5v, 1 Pin)

Ground | digital (5V, 1 Pin)

1	2	3	4	5	6	7	8
digital						analog	

connector 1

1	2	3	4	5	6	7	8
digital						analog	

connector 2

1	2	3	4	5	6	7	8
digital						analog	

connector 3