Kyle Retziq Design of a Circuit Breaker Controller Power and current Load LED indicator ON FILE FOR -Display for operation, error code readouts (7-seg) - 130FF 11 11 11 15 10 16 LED Health Indicator, also Master Override 8 00 1 are push buttons for monual to kill power open/close of individual circuits to crecutting in emergener when tripped, the spring activated push Each button is connected to current > button can decompress and change to Monitoring switch a tripped LED colus · Everything would be analog, apast from the display features that use LED and 7-seg outputs Valid Conditions on controller · Analog votage checking loop · GPTO button Monitoring/shut off control · Startup check on controller · Run bop voltage monitoring · Interrupt service to shot off or turn on circuit Invalid Conditions on Controller

· When an invalid voltage is running through breaker or sent into controller

· When circuit is held high and tripping

Operator Use

- . Manual operation on interface
- Could use secure remote connection to remote shutdown, but startup of circuit should be manually set in physical presence
- · When running correctly, all operator does is turn on and off circuit breaker, they can turn on and off individual circuits at will.
- · When there is unhealthy operation, the operator must fix the faulty circuit, then theill be able to manually reset the circuit
- " If user does not fix faulty circuit, the breaker button will not batch when pressed



