

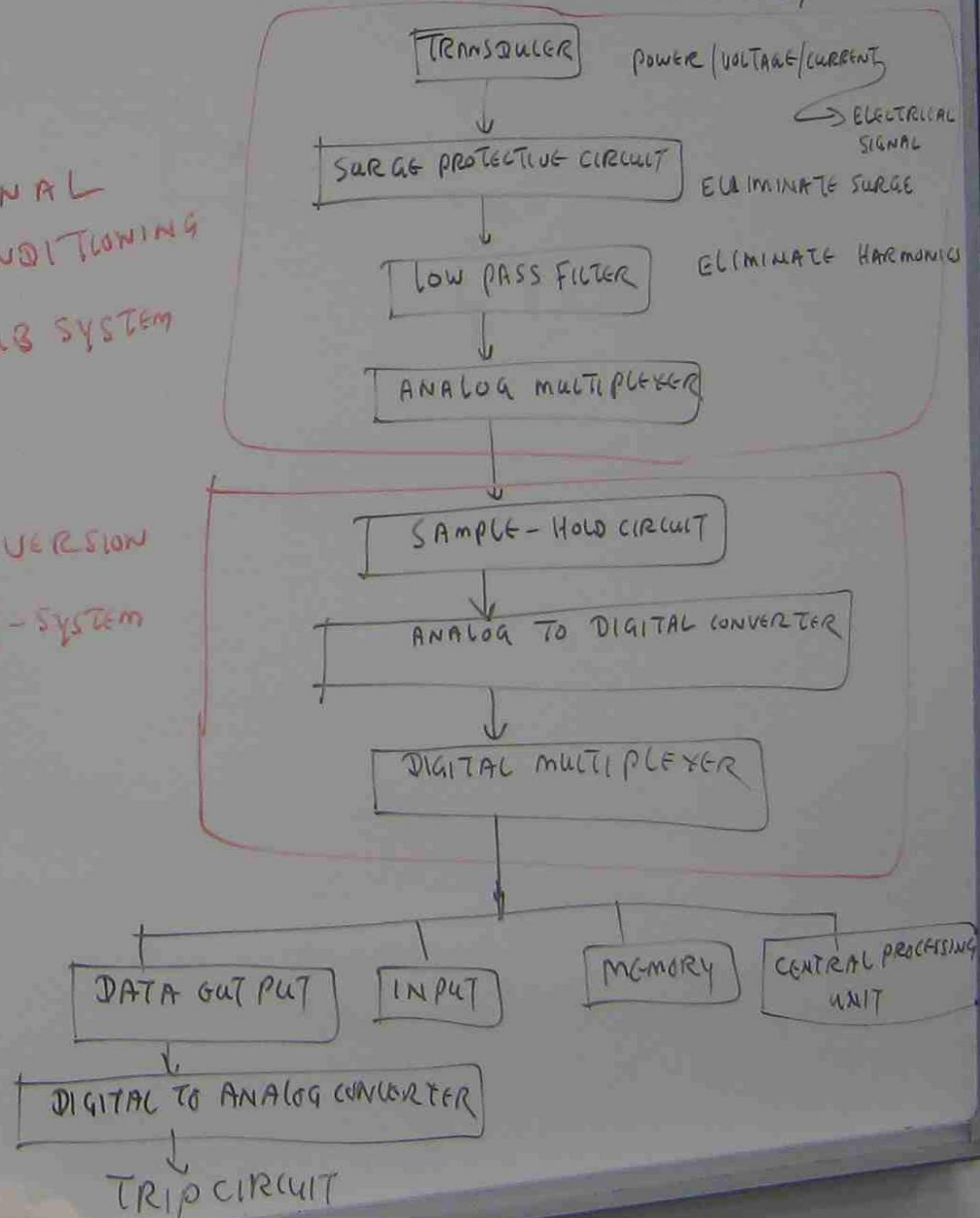
DIGITAL RELAY

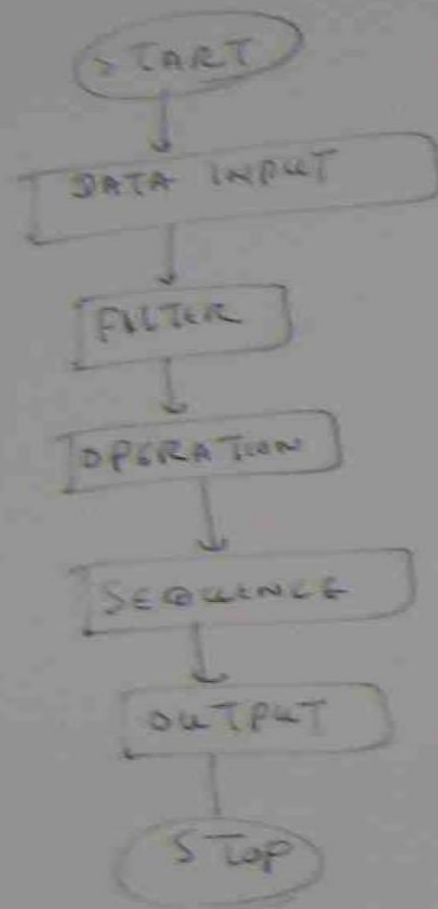
DIGITAL RELAYS CAN OPERATE FASTER THAN ELECTROMAGNETIC RELAYS BUT IF TEMPERATURE IS TOO HIGH OR TOO LOW, DIGITAL CIRCUIT OPERATION CAN BE AFFECTED. ELECTROMAGNETIC RELAY CAN BE MORE SUITABLE.

OPERATION DIAGRAM OF DIGITAL RELAY

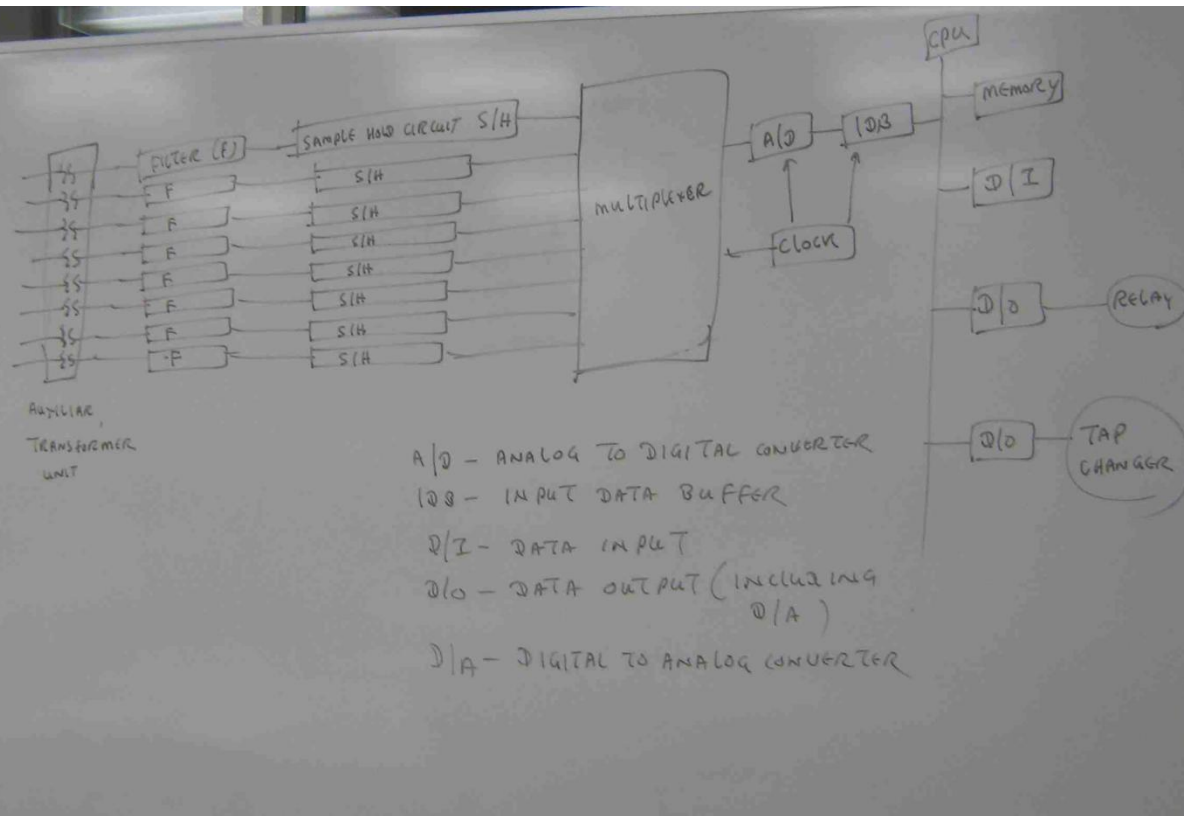
SIGNAL
CONDITIONING
SUB SYSTEM

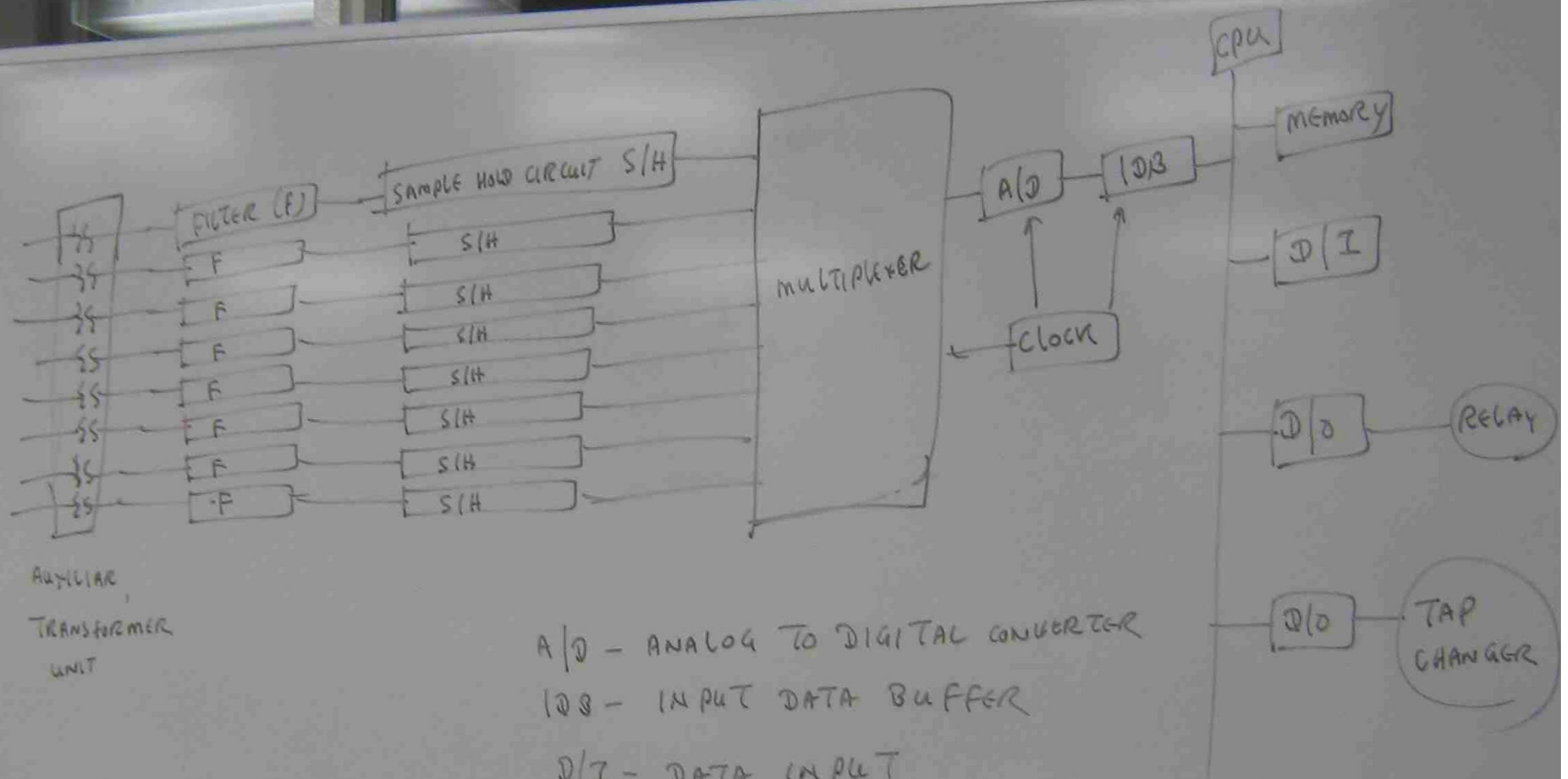
CONVERSION
SUB-SYSTEM





Flow CHART FOR SOFTWARE
OF DIGITAL RELAY





Auxiliary
Transformer
Unit

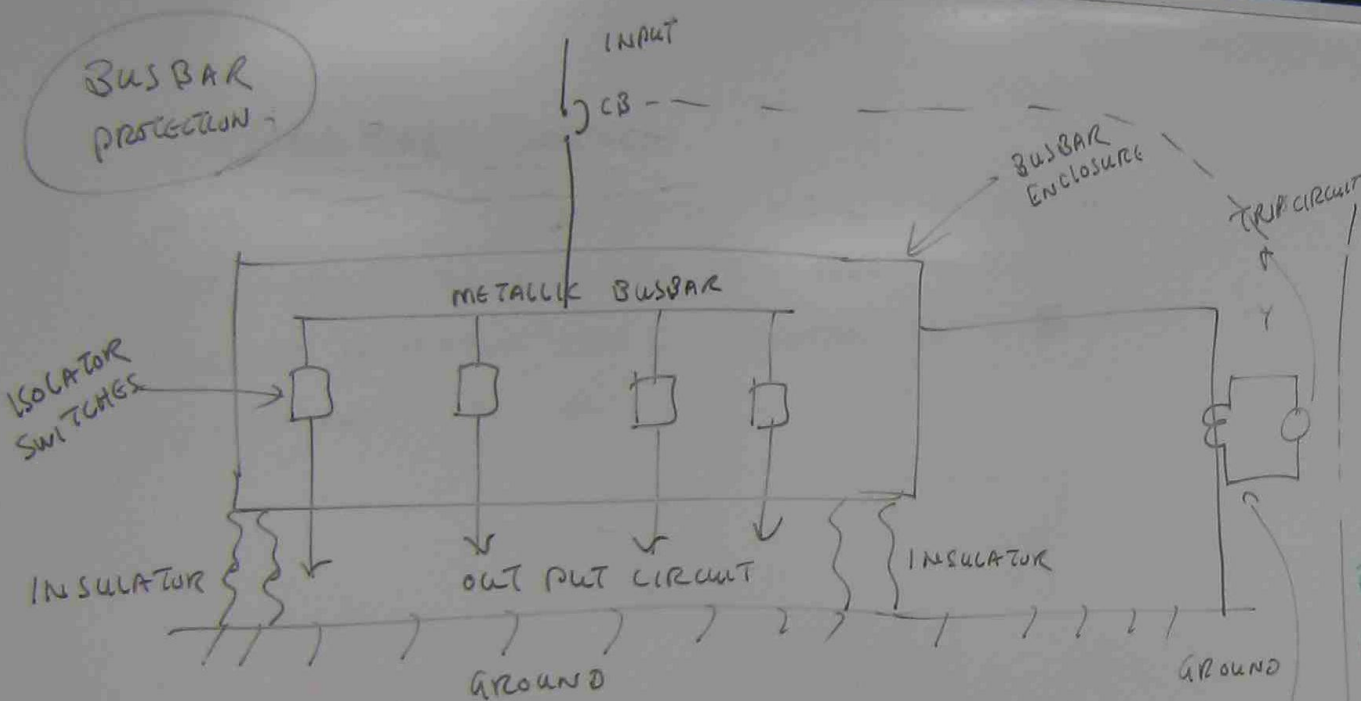
A/D - ANALOG TO DIGITAL CONVERTER

IDB - INPUT DATA BUFFER

D/I - DATA INPUT

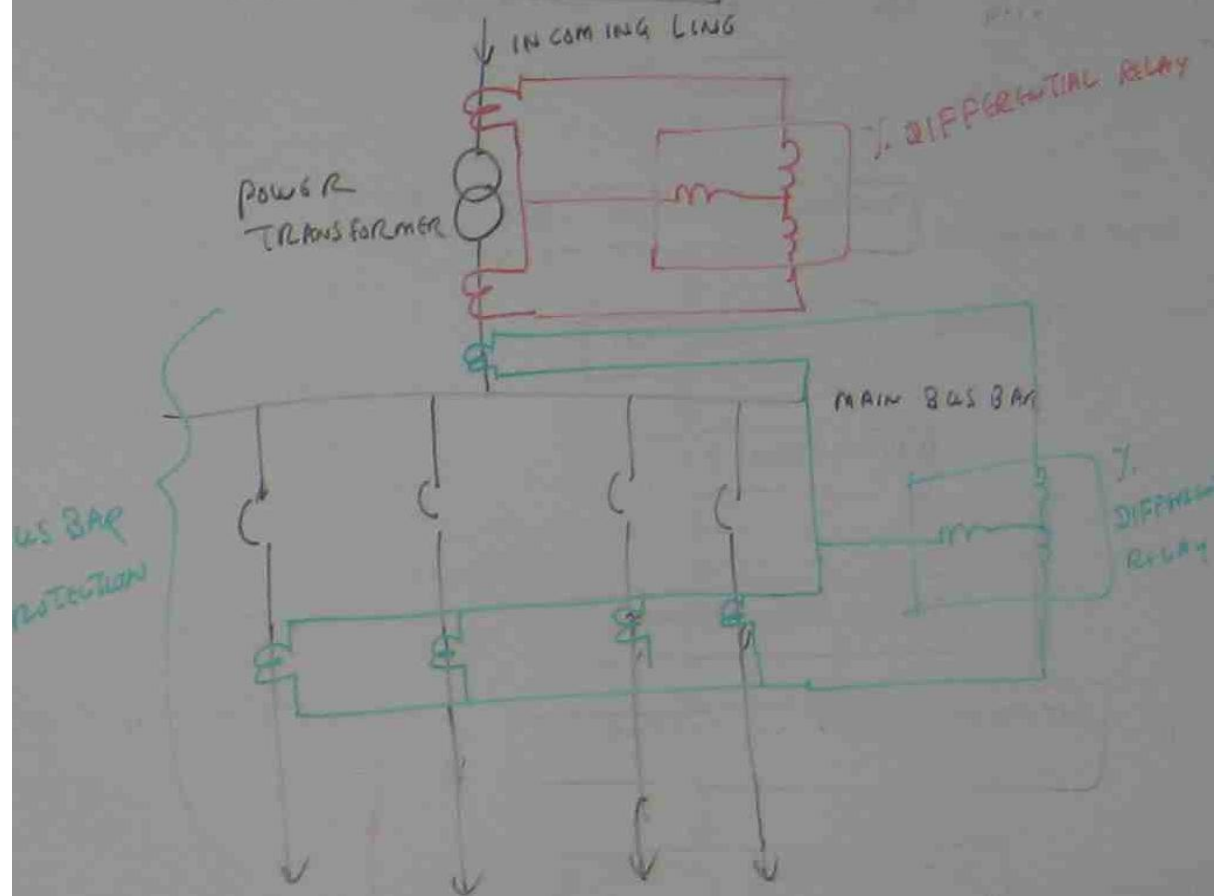
D/O - DATA OUTPUT (INCLUDING
D/A)

D/A - DIGITAL TO ANALOG CONVERTER

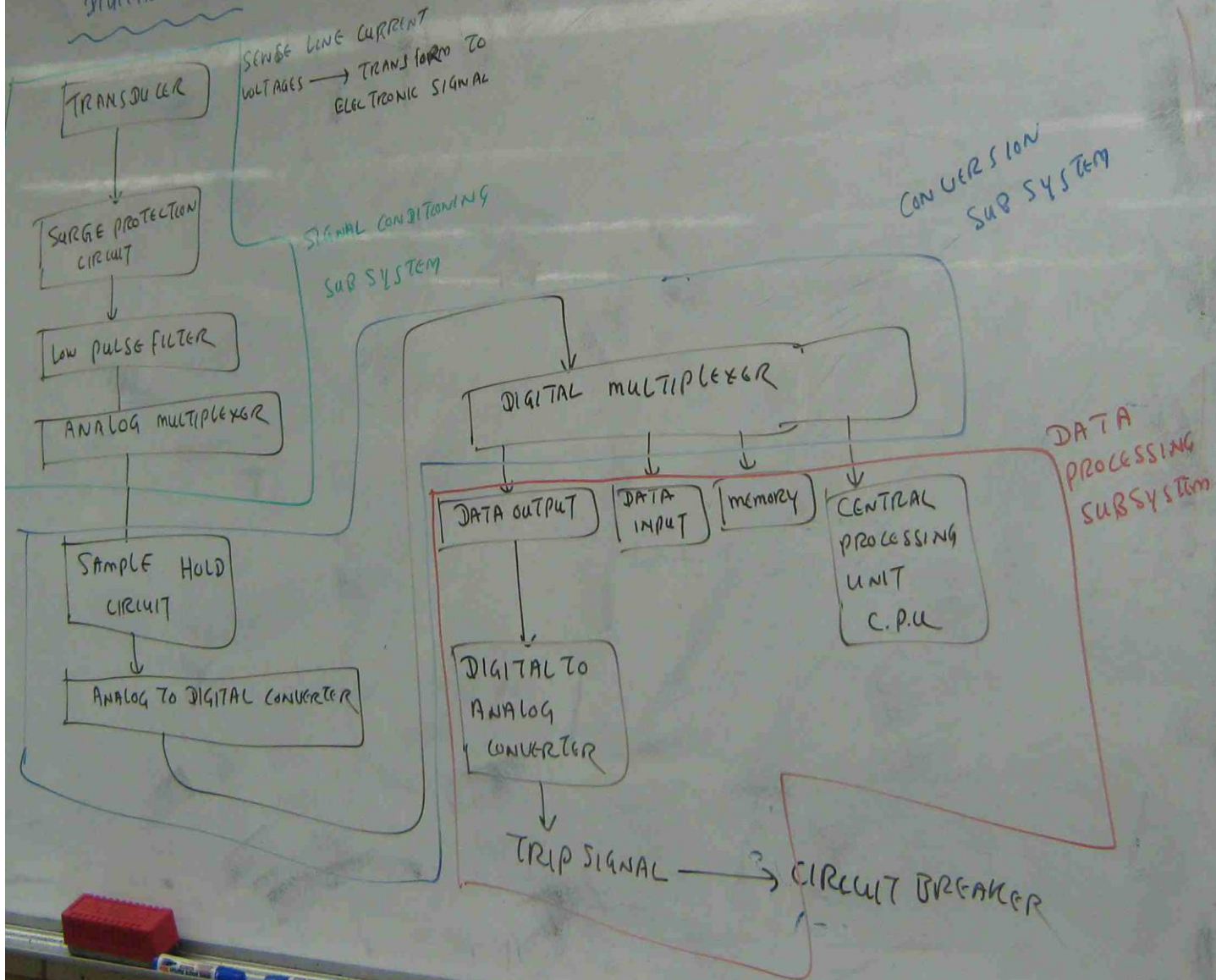


- EARTH LEAKAGE PROTECTION IS PROVIDED FOR EARTH LEAKAGE IN METALLIC ENCLOSURE.
- % DIFFERENTIAL RELAY PROTECTION IS PROVIDED FOR BUSBAR PROTECTION.

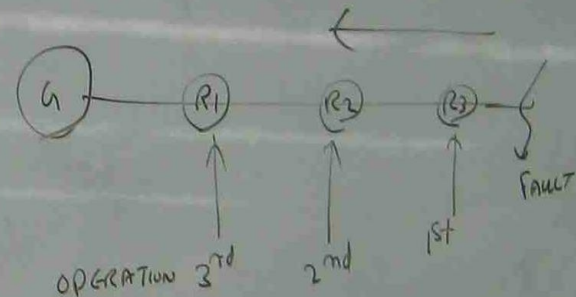
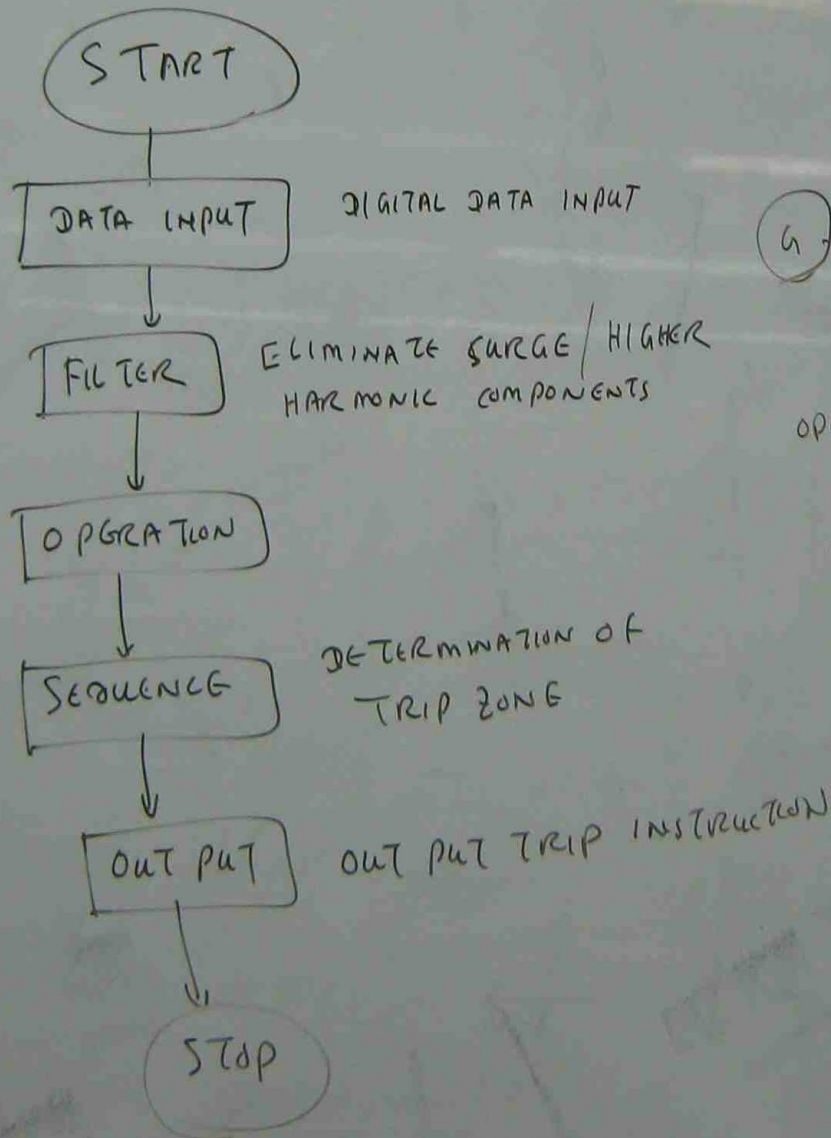
LINE | BUS BAR PROTECTION

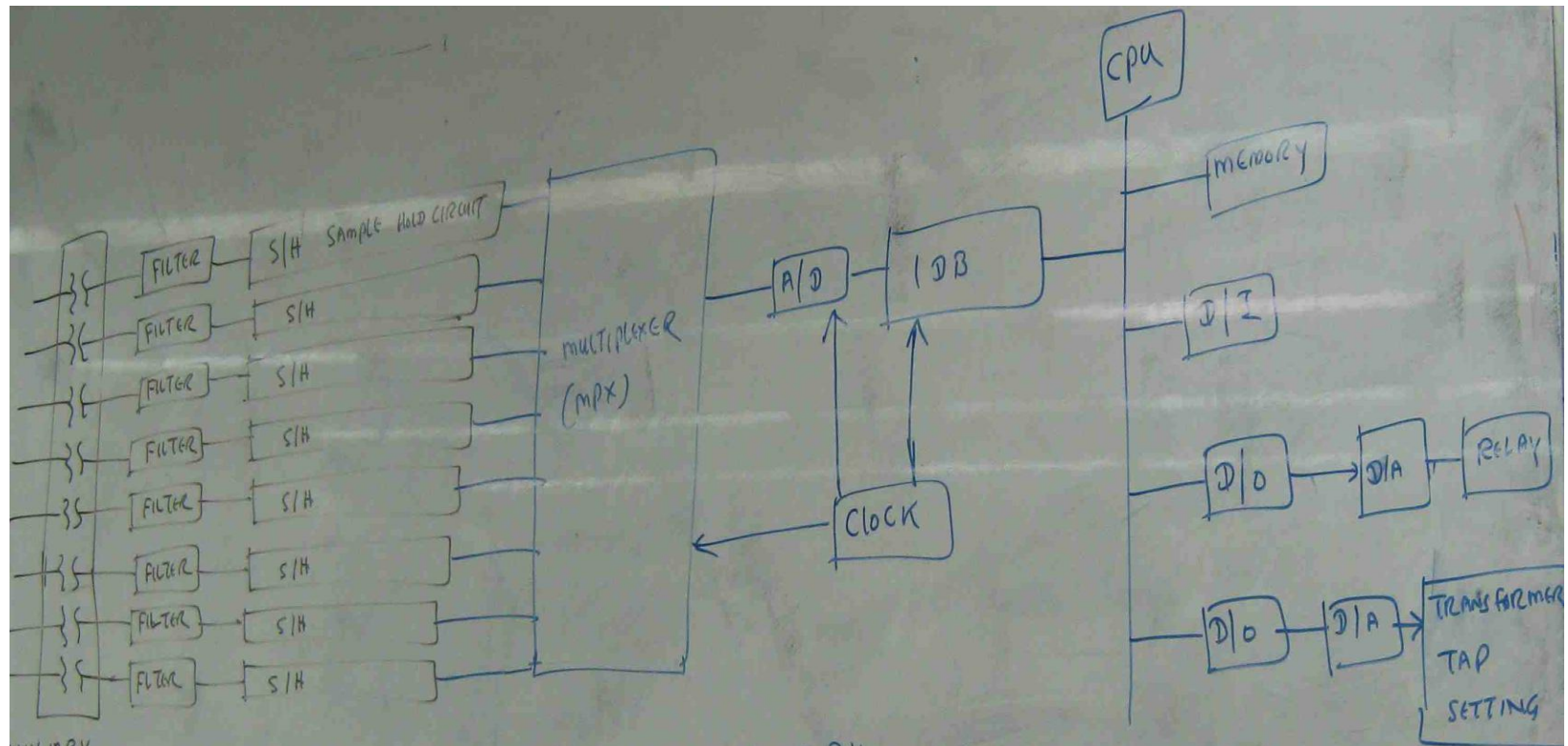


DIGITAL RELAY



Flow Chart FOR THE SOFTWARE of A DIGITAL PROTECTIVE RELAY





AUXILIARY
TRANSDUCE
UNITS

A/D - ANALOG TO DIGITAL
CONVERTER

I/O - INPUT DATA BUFFER

D/A - DIGITAL TO ANALOG
CONVERTER

CPU
CENTRAL
PROCESSING
UNIT

D/I
DATA INPUT

DATA BUS BAR

D/O
DATA OUTPUT

APPLICATION OF TELECOMMUNICATION NETWORK IN POWER SYSTEM PROTECTION

