

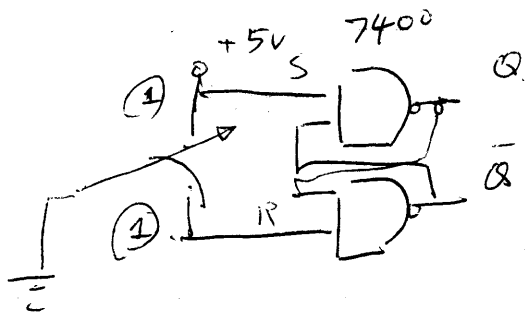
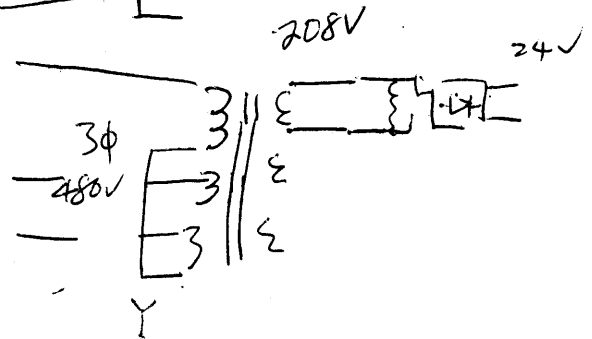
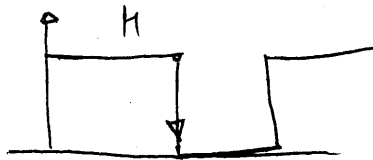
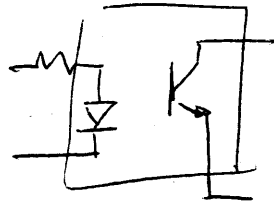
Barry's Project

①

Data

↓ Power ON/OFF 24V

3φ 480V / 24V



R	S	Q	\bar{Q}
0	0	No allowed	
0	1	1	0
1	0	0	1
1	1	No change	

Data Capturing

1. Power on/off (24V)
2. Cycle ON (Machine Running) (24V)
PLC - Cycle Start

3. Feed hold

Machine Paused (24V)

4. Alarm output (24V)

5. Another

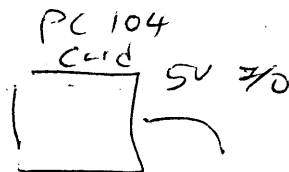
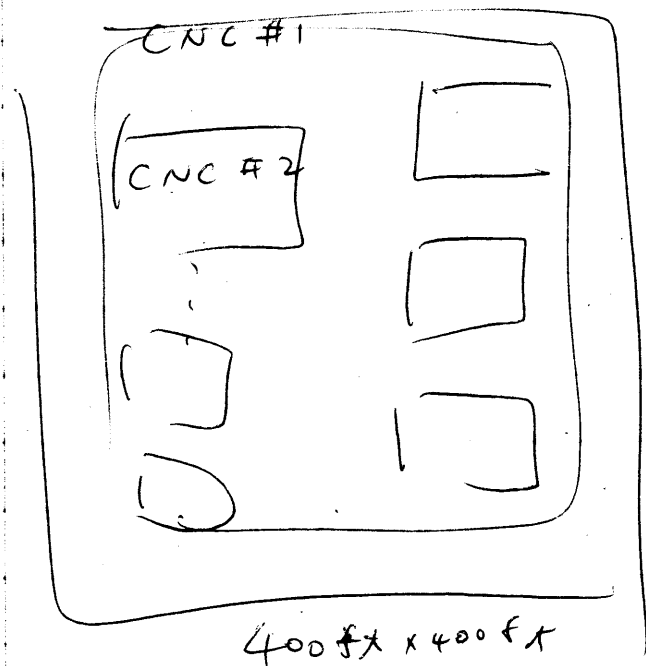
PC - XP Processor

(2)

PC 104
Card Stackable

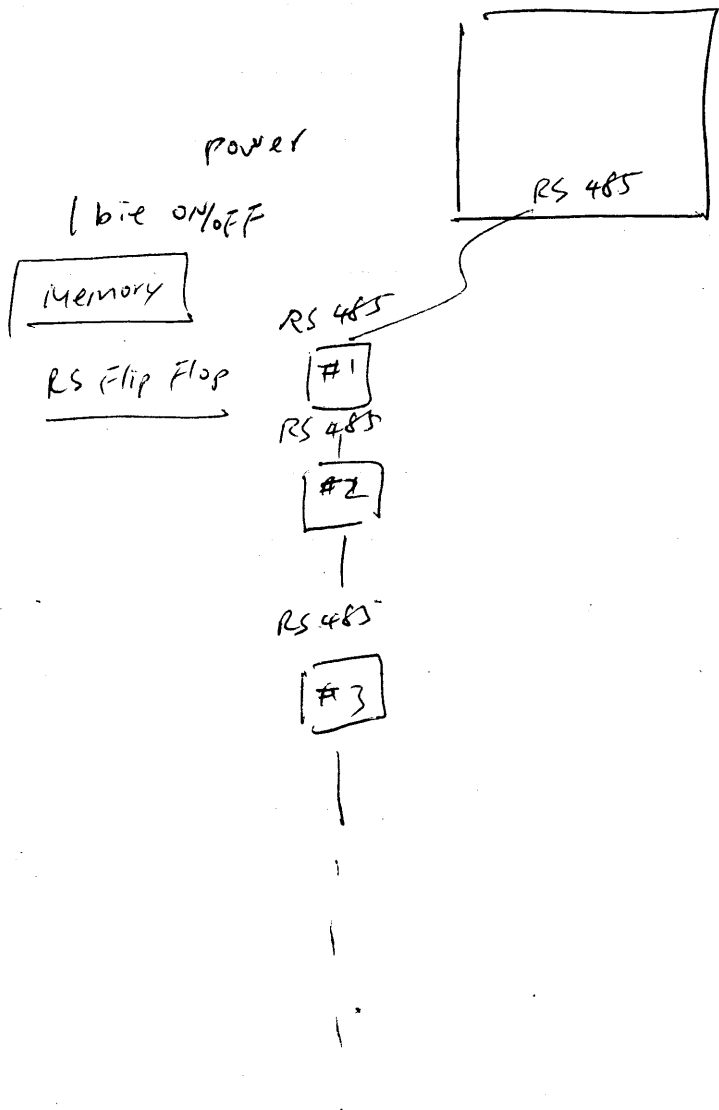
5V
96 I/O points INPUT/OUTPUT

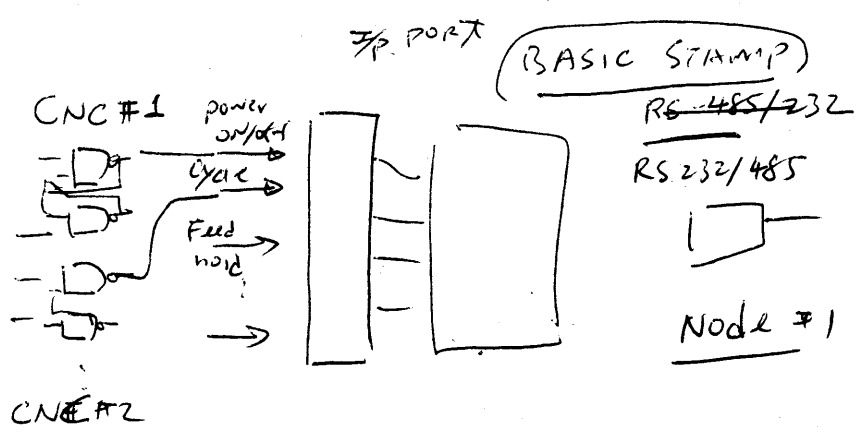
of Machine 14 CNC



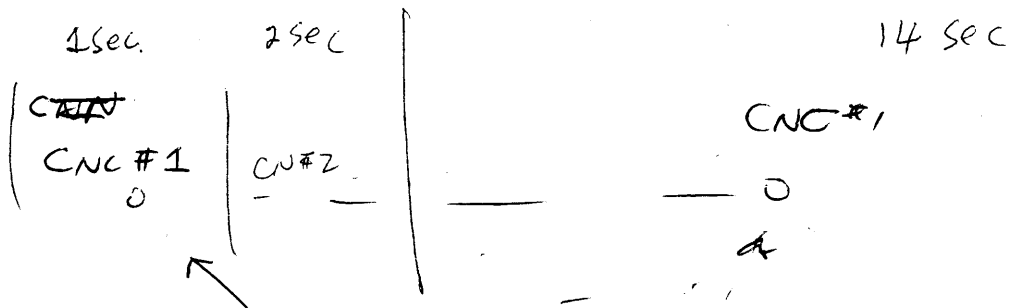
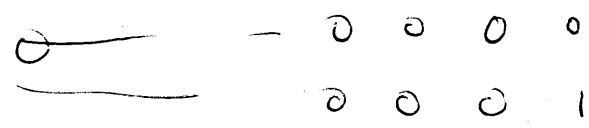
Celling

XP fanless process





Read one byte - Feed Cycle Power
 H on/off
 b7 b6 b5 b4 b3 b2 b1 b0



14 machine x 10 sec
 = 140 = 3 min

60 min
 20 Set of data

XP
 Fearless PC
 Scan/Polling

RS 485

up 256 devices

VBScript

10sec CNC#1 time Stamp
 10sec text File CNC#2 Time Stamp
 1 hr

BASIC STAMP
 XP 12:05
 40 min
 12:45

Starting time

Data Reading every 10 Sec.

CNC#1
...

1 hr

Raw Data

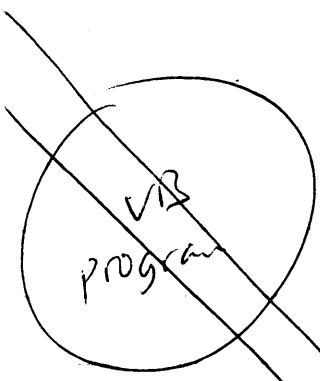
Intelligent Data Analysis.

2h

ON For How ~~Long~~ Long

↑
Cycle Start for
Data Structure

3h



CNC#1
CNC#2

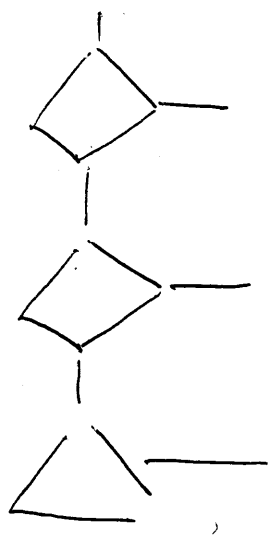
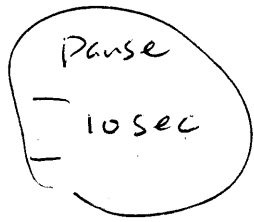
CNC#1				

8 hr.

Decision tree

Algorithm

ON
4hr



Wake it at 8 AM

Machine turn on

Machine # 10 PM.