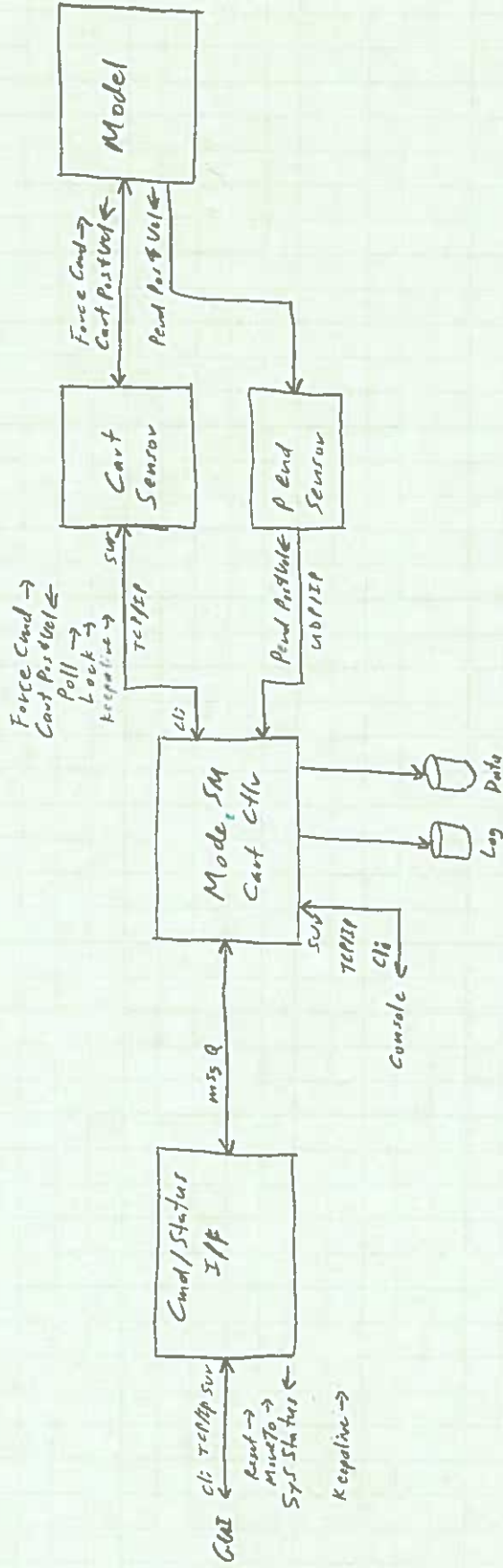
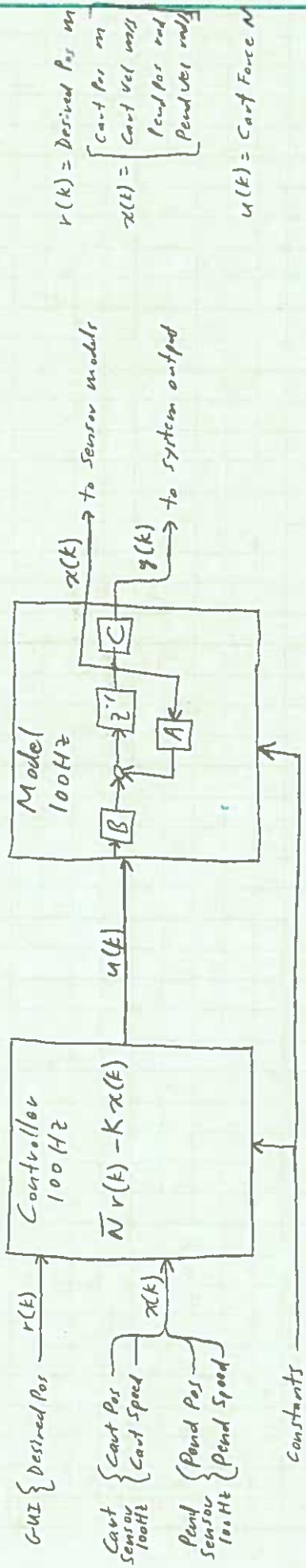


AMPAD™



State Machine  
 TCP/IP Console Server  
 TCP/IP Console Client  
 UDP/IP Sensor Send/Recv  
 Data recorded to disk  
 Presentation Layer (TCP→GUI)  
 Worker Threads sync'd via queues  
 Error Handling  
 Logging of Events and Errors

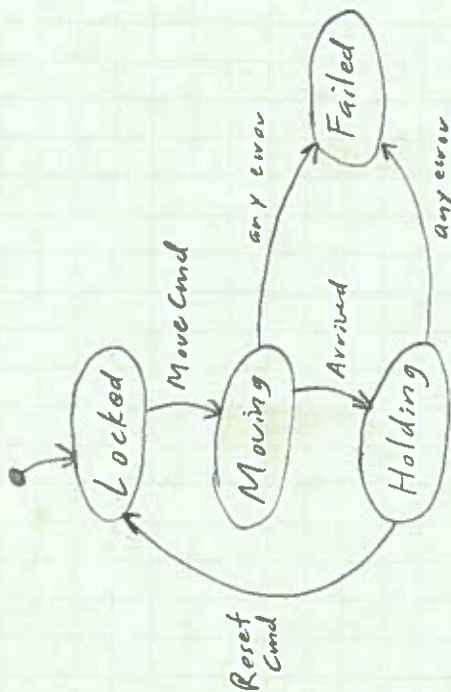
AMPAD



$$r(k) = \text{Desired Pos in}$$

$$x(k) = \begin{cases} \text{Cart pos in} \\ \text{Cart vel in} \\ \text{Pend pos in} \\ \text{Pend vel in} \end{cases}$$

$$u(k) = \text{Cart Force N}$$



Error  
 Cart Railed  
 Pend Flopped  
 Move Timed Out

