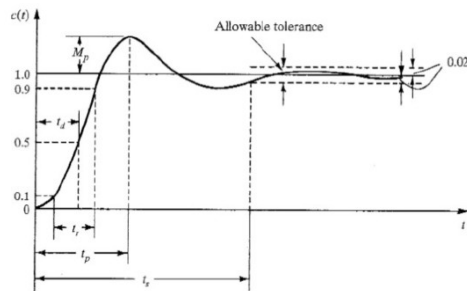
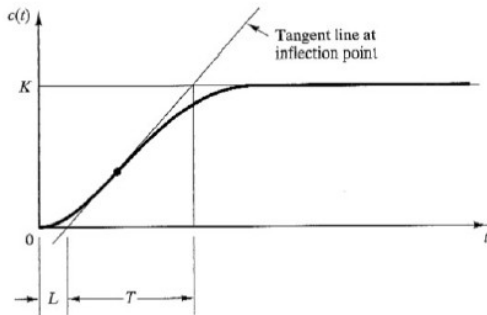
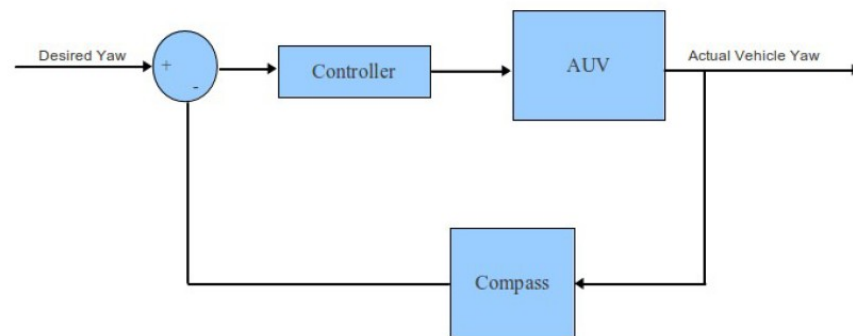


# Controls Software: Requirements

- Goal: To control four available degrees of freedom, using information appropriate to the requested command
- Input:
  - Command
  - Set points
  - Sensor values
- Output:
  - Thruster values



# Controls Software: Architecture

- Began as a Simulink model
- Last-minute change to custom C++ controls code
- Four degrees of freedom controlled by four PID sub-controllers
- Operation mode can be changed at runtime

