In4073
Embedded Real-Time Systems
System Integration
Yaw control

Calibration (zeroing), continuous?

Filtering?
- Butterworth
Angle: P-controller + Kalman filter
Angle: cascaded P control
Notes on Filtering

- Classic filtering: trade-off noise vs. phase lag
- Kalman filter instead
- Sufficient resolution, especially for gyro bias (b)
- Non-zero angle bias at standstill
- Timing: angle loop is target
Example Signal Flow (Kalman Filter)
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