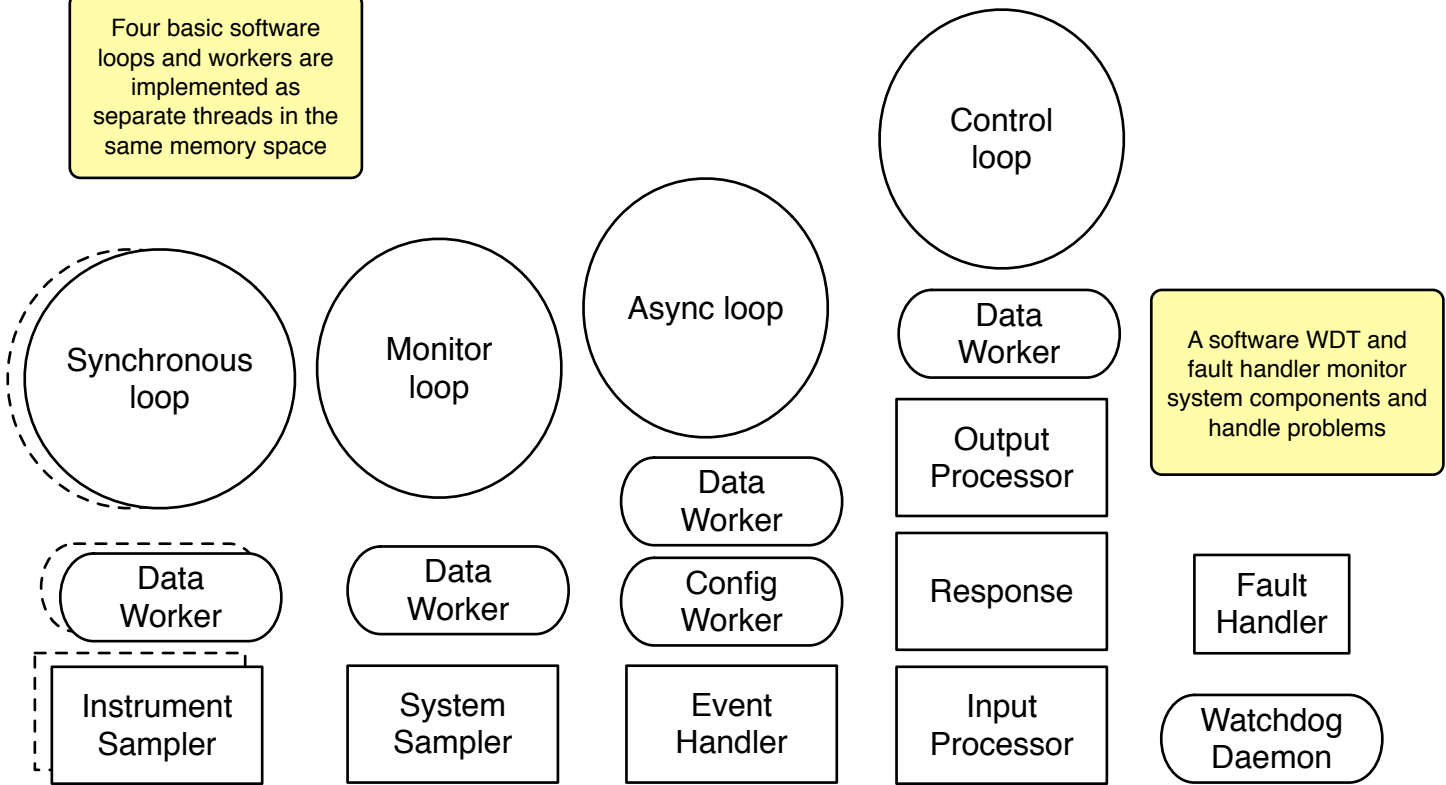


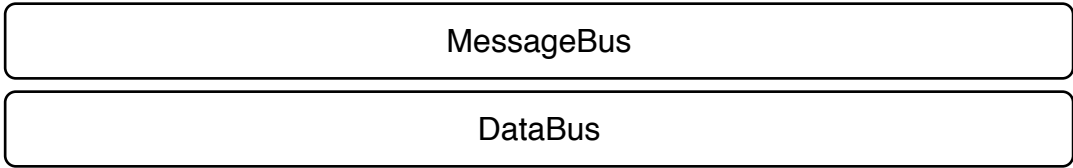
Four basic software loops and workers are implemented as separate threads in the same memory space



A software WDT and fault handler monitor system components and handle problems

Managers create and manage software components and resources

Manager(s)



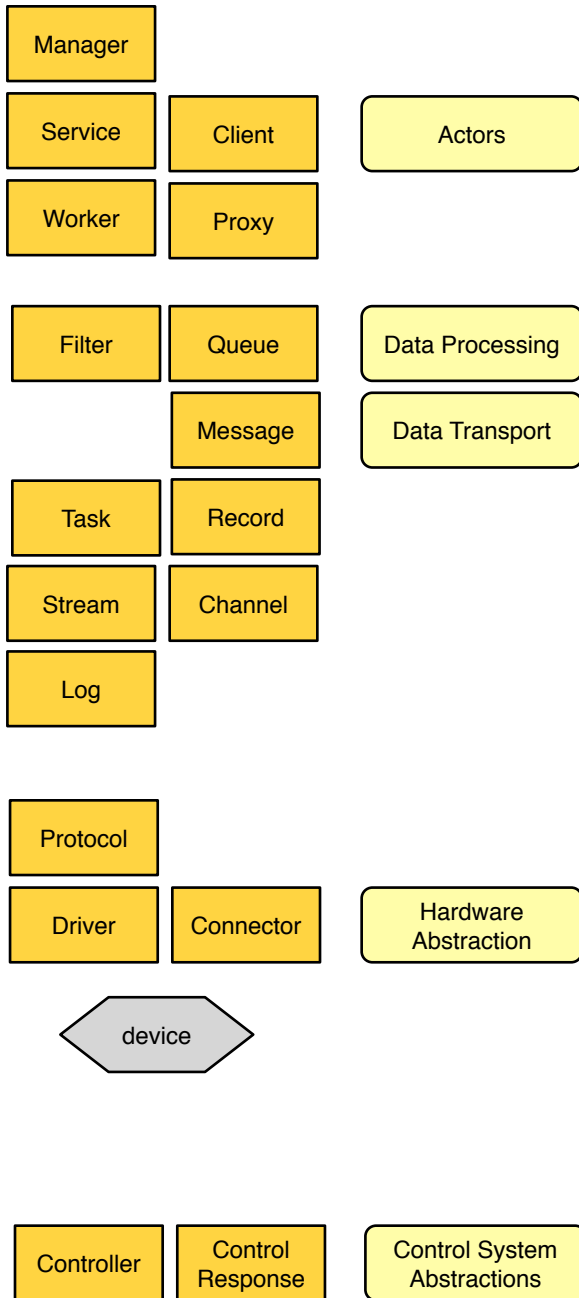
NodeProxy Daemon

NodeClient

C, Java, LabView?
Matlab?

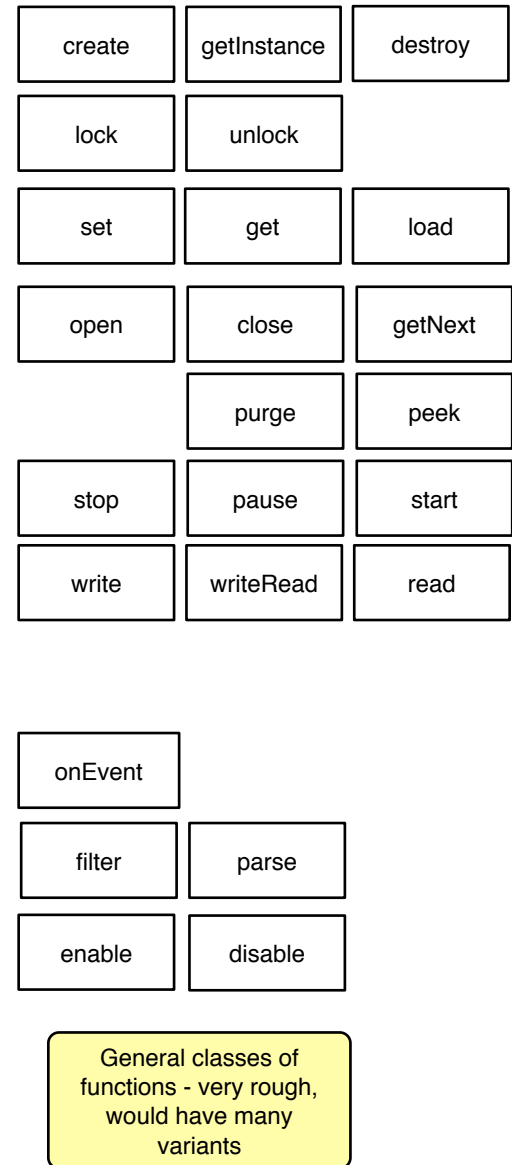
Data Structures

Things w/ State
Things that do things

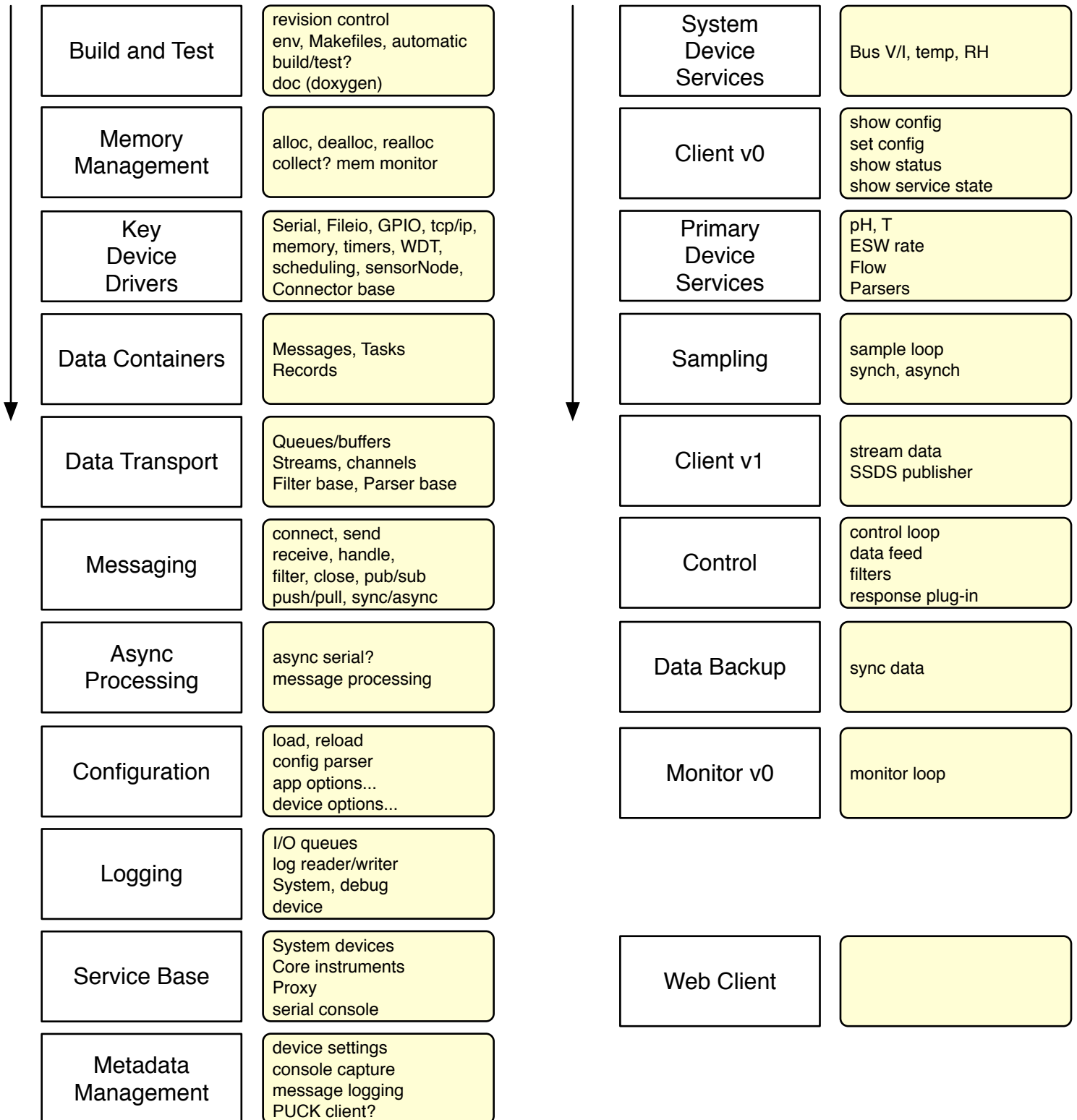


Functions

Operations on Structures
Libraries



Developing Core Capabilities



**Iterating Around System
Capability Milestones**

	Config	Sampling	Control	Data	Tools, UI
milestone	config file sample period num, string	serial pH, T, current, pump 5 Hz	open loop constant pump constant flow	local logging	command line shell scripts automated build module tests
milestone	arrays, structs power, com port	memory, GPIO RH, Bus V/I, T DO, PAR	subscribe pH, T PID response	data pub/sub	service get/set data sub
milestone	experiment parameters comm params	TCP/IP, HTTP camera	Filter chains	Data channels SSDS ingest shore backup	

