UML Class diagram

Lock
- isLocked()
- lock()
- unlock()

ADC
- requestADC(c)
- sampleADC(c)
- releaseADC(c)

AdcInputChannel
- getCurrentSample()

Thread 1

Thread 2

Thread 3

Thread 4

Thread 5

Thread 6

Link
- isInUse
- setInUse
- setIdle
- writeToDataLink(id, data[])
- getLinkId()

LinkAccessController
- requestLink()
- releaseLink(releasedLink)

Receiver
- Receiver()
- receiveDataBlock(id, data)
- printBlocks()