**Data**

List<Kit> KitsOnConveyor

Int NumKitsToDeliver //Initially 0

FCS fcs

KitRobot kitrobot**Messages**

//From KitRobot

NeedKit(){

NumKitsToDeliver++;

}

//From KitRobot

TakeKitAway(Kit k){

KitsOnConveyor.add(k)

}**Scheduler**

//Default KS for Kit is //AwaitingPickup

If Ǝ k in KitsOnConveyor ϵ

k.KS = AwaitingPickup

call SendKit(k)

If Ǝ k in KitsOnConveyor ϵ

k.KS = Shipped

call DeliverKit(k)

if(NumKitsToDeliver > 0)

call PrepareKit

if(KitsOnConveyor.size() > 0)

call MoveConveyor();

else call StopConveyor();

**Actions**

PrepareKit(){

Kit k = new Kit();

KitsOnConveyor.add(k);

}

MoveConveyor(){

DoMoveConveyor();

}

StopConveyor(){

DoStopConveyor();

}

SendKit(Kit k){

NumKitsToDeliver--;

kitrobot.HereIsKit(k);

}

DeliverKit(Kit k){

DoDeliverKit(k);

}

DoDeliverKit(Kit k){

//Animate

//e.g., when it goes offscreen, get //rid of it

}

DoMoveConveyor(){

//Animate}

DoStopConveyor(){

//Animate}