System Code and User Interface Collaboration

EWU IEEE Industrial Sorter Project

September 6, 2020

System code is shown in **bold**

User interface code wishlist is shown as highlighted

From “Sorter.c”:

**Main{**

**Configure()**

ShowReadyLight() //right now the code blinks 3 times to show configure worked

**While(presetButtonNotPushed){} //wait until operator hits preset**

**While(preset){**

**homeTable()**

**homeChute()**

**while(runButtonNotPushed){} //wait here until operator hits start**

**while(run){**

**singleSort() //rotate turntable to get product in front of sensor and drop previous into chute**

**//call sensor code to get sort result integer: 0=reject, 1-5=skittle colors**

**//move chute to correct cup**

**if(estop){**

**preset = FASLE;**

**run = FALSE;**

**//break out of loops, but power to motors has been cut so system is safe**

**}**

**if(softStop){**

**run = FALSE;**

**}**

**}**

**}**