

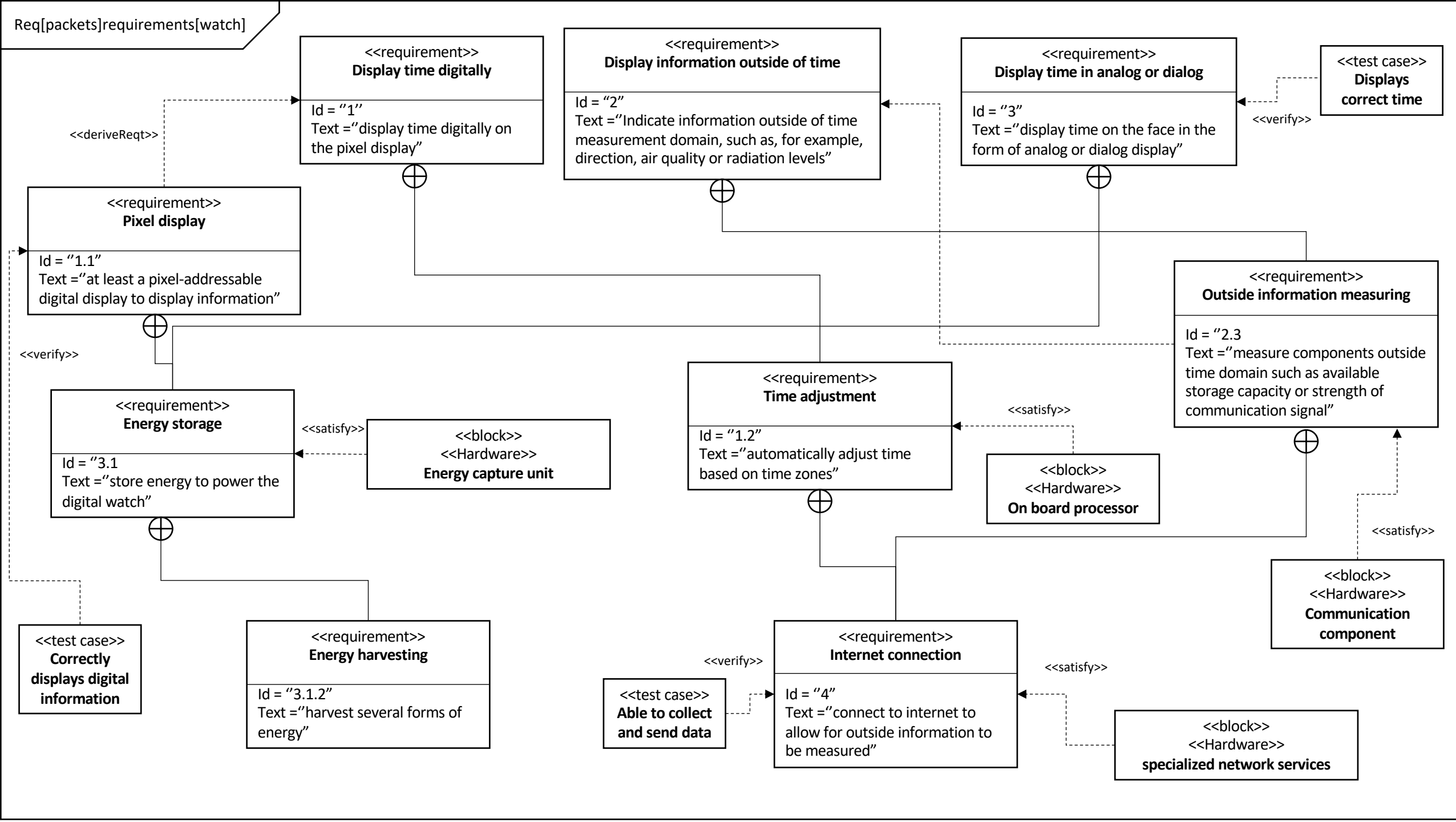
Name: James Bird  
Username: JXB1330  
ID: 2212304

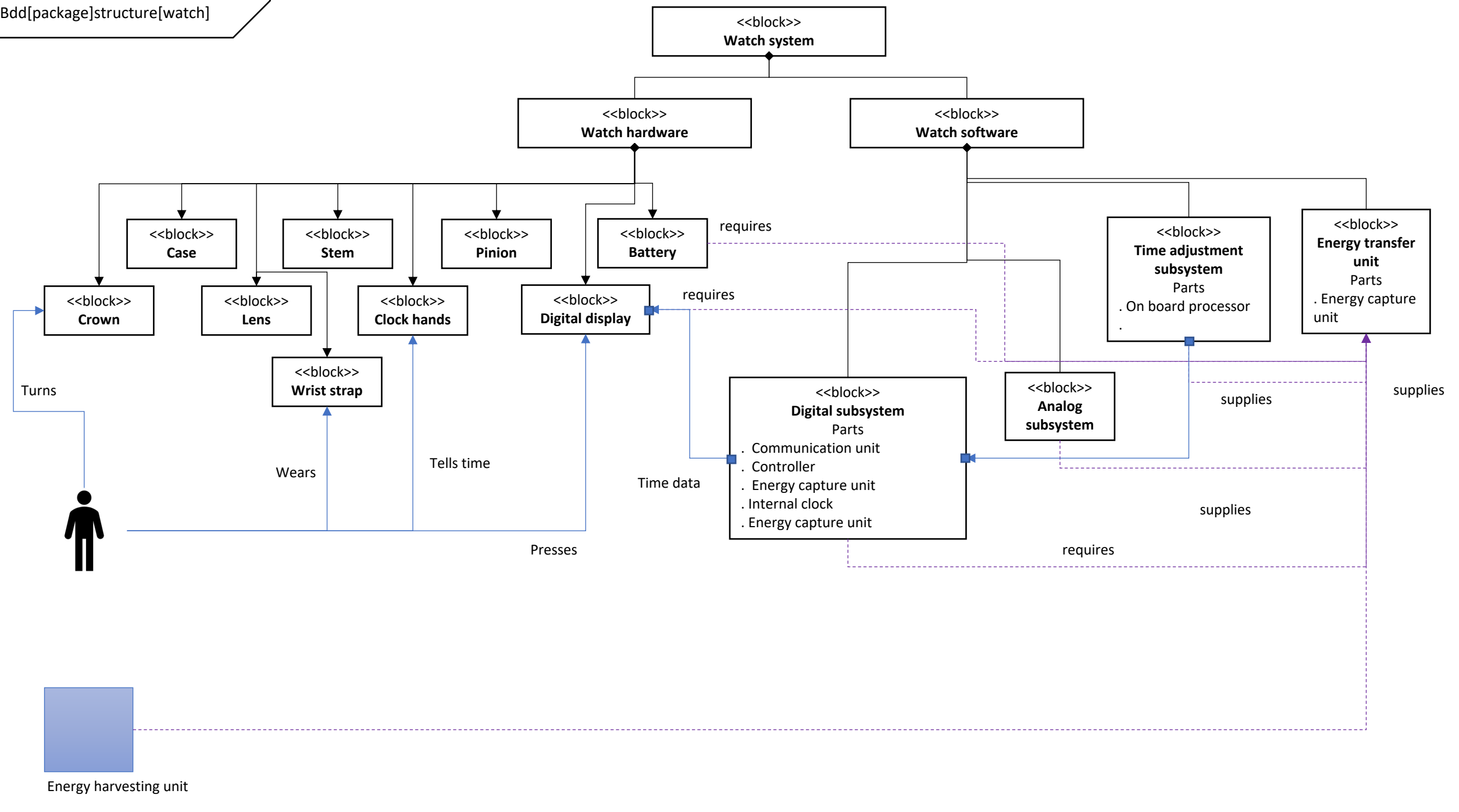
For the requirement diagram I initially identified and listed all the requirements from the patent and created my first initial iteration with the two main requirements being display the time and display information outside time. In my second iteration I added descriptions to the requirement blocks to identify new requirements and to see the relationships between the blocks. Next, I identified what type of relationships my requirements have and decided upon creating a derived requirement relationship, I then wrote down some of the ways my requirements can be satisfied to add onto my final iteration.

The requirement diagram three main requirements are display time digitally, display time in either analog or dialog and display information outside of the time domain. I decided that the requirement to store power is a derived requirement from supplying the power and can be satisfied by the internal energy capture unit.

For the Block Definition diagram, I firstly Identified and listed all the blocks of the watch and created a small diagram describing the hardware and software of the diagram making sure they satisfy my requirement diagram satisfy blocks. In my second iteration of my diagram, I better described the relationship between the hardware and software components by adding requirements and supply lines between them. I then added an actor to describe how the user would interact with the hardware of the watch

I started my activity diagram by making a small diagram derived from my requirement diagram and iterated upon the blocks, adding new activities needed to satisfy the other blocks completely. In my next iteration I included the parameters for data. I then added the control flows and decision nodes to describe how the sequence of activities within the watch are to output the times.





Act display analog time

