

Describe, in a narrative, at least 3 design decisions you have made in previous assignments. Why did you decide on the action that you took? What were the alternatives that you considered but did not select?

Answer:

- (1) At first, I added error model to the project. Because, this product will have safety problems when it works incorrectly. So it is required to describe it via error modeling. Then, I use modifiability tactics to refine some parts of this model. I split sender and receiver module out from device_controller_monitoring module, because it has its own functions. This can make the structure more clear. At last, I encapsulate the sender and receiver to a s_r module for they have common and similar functions. So we do not have to do them separately.
- (2) I wanted to write an abstract system to implement sender and receiver separately, but I gave up. Because there is no need to do so. They are similar, and it will be more complex if I wrote an abstract system.