

EDES 301

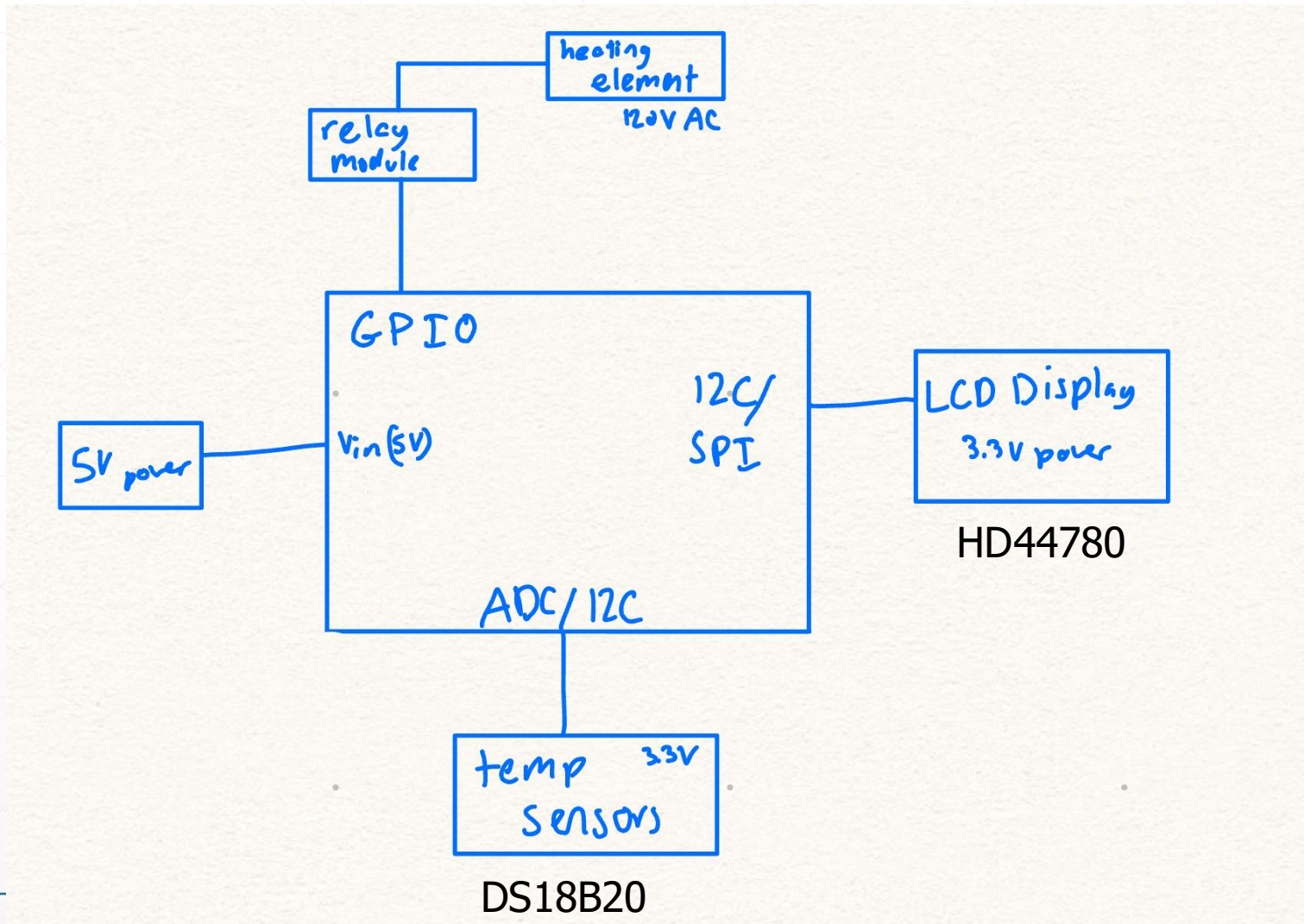
Coffee Heater Proposal

February 23, 2025
Emma Berdou

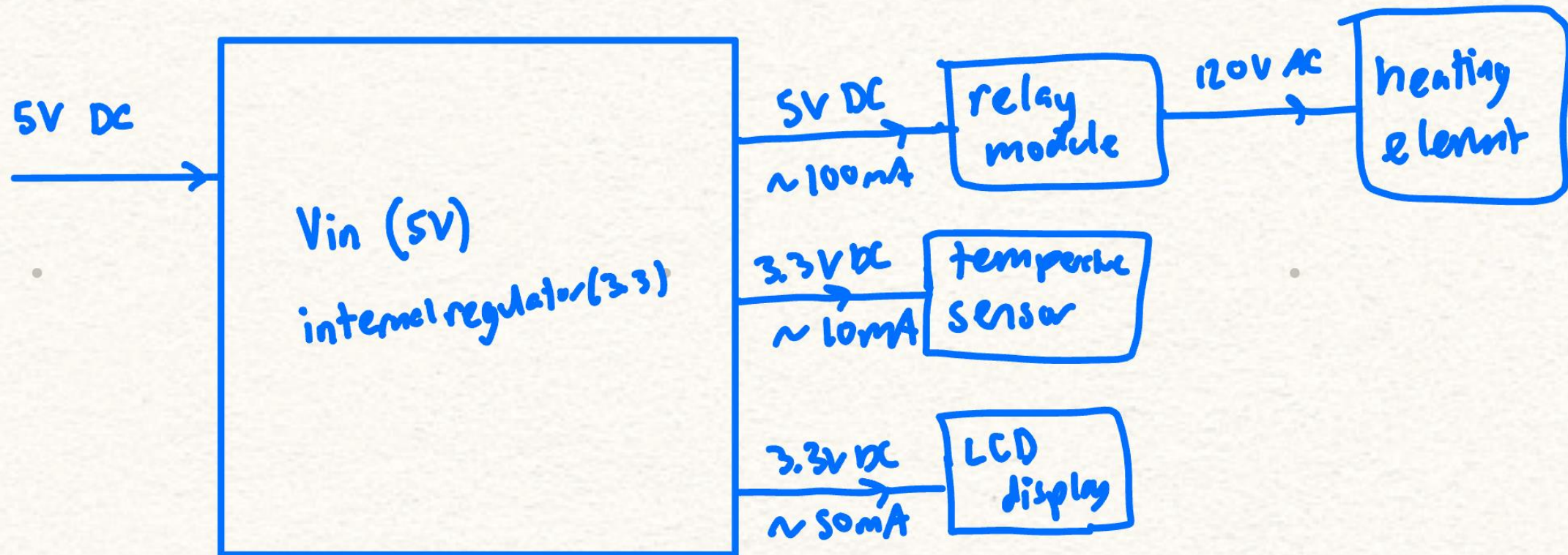
Background Information

- I want to make a coffee heater.
 - I drink a lot of coffee and tea, but sometimes I like to keep it for a while, but after a while, it isn't warm anymore, and I need to throw it out
 - Links to existing projects/libraries
 - hackster.io/alvaro-castillo/coffee-heater-cbc2ff
 - What improvements/additions over the existing project
 - I am hoping to add an emergency shutoff feature after a certain condition is reached most likely a time limit
 - if I'm able to get a digital display saying that it is heating/resting I will do that.
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System Block Diagram



Power Block Diagram



Components / Budget

Component	EDES301 to Buy?	Cost
https://www.adafruit.com/product/381	Yes	\$10
https://www.adafruit.com/product/1481?gclid=CjwKCAjworfdBRA7EiwAKX9HeNQPtQcZ51oXOIOoJA6Fh67YezZWXXM-pLJFgZQFKAJYaHAPasXRIBoCZOQQAvD_BwE	Yes	\$6
USB Hub	No	
Relay Module (5V)	Not sure	\$6
See Next Slide for Instructions		