ETUDE TWO: PERCEPTRON-P
CART 360 | FALL 2019
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GITHUB:
https://github.com/melanieabbet/CART360
INSTRUCTORS:
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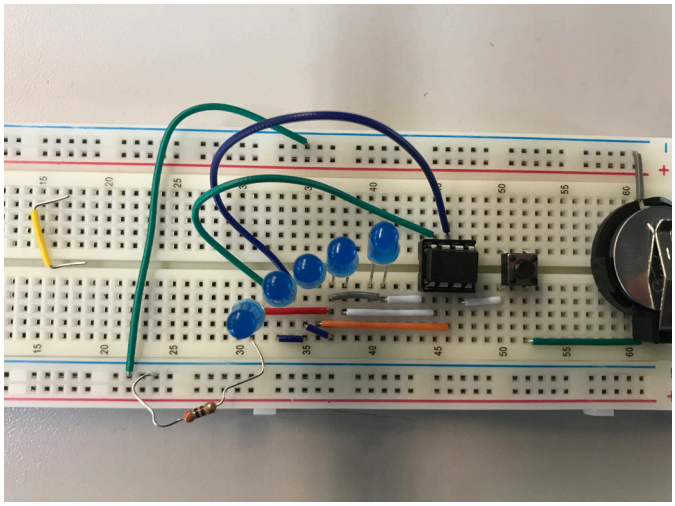
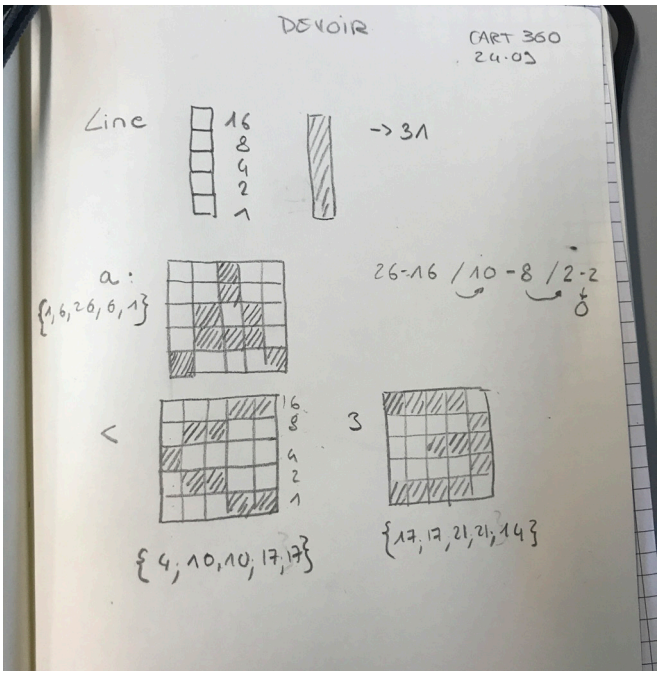
PART 1

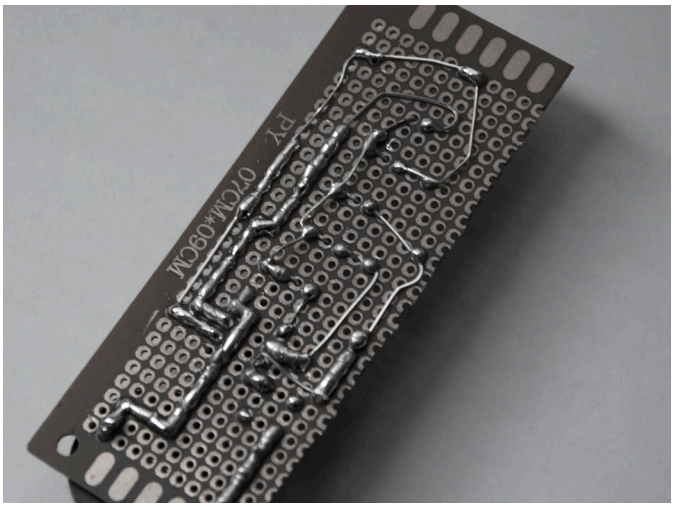
I first  build the circuit on my board. I was wondering why it was not working until we realize I did not download the programme on  the chip. I also had inversed the connection to the pin of two LED.



To understand the code I figured out how the letter A was designed and I make a grid to build my own character: «<» and «3». I decide to write «MTL <3» on my board.




When times come to build definitively my circuit I realize that it could be hard to put all the component if I let the LED in the same position on the board therefore I analyse the exemple board to spare place. I also realize that I should follow the schematics to place correctly the connection to the last two LEDs. While for the depiction I would  have needed to build a kind of bridge (my LEDs would otherwise be crossed).

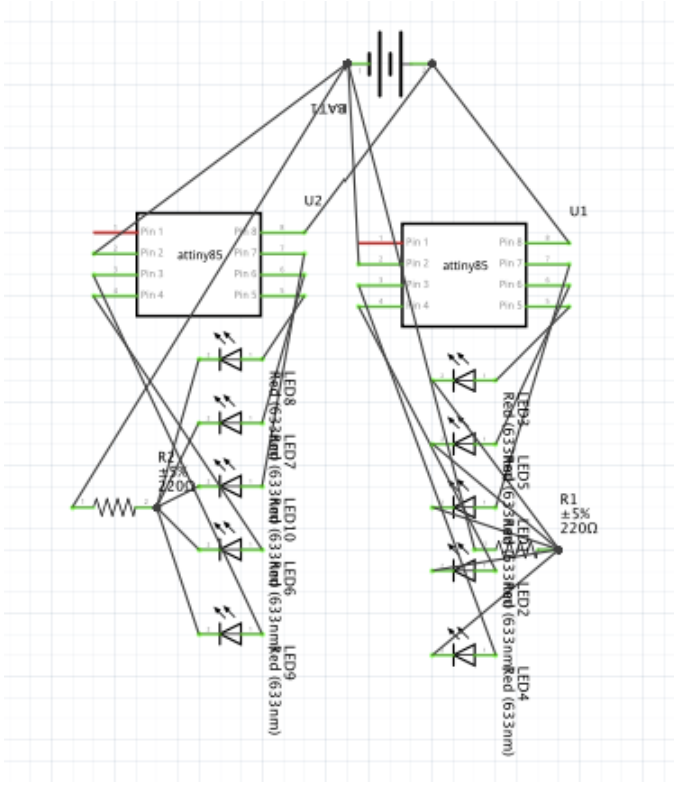


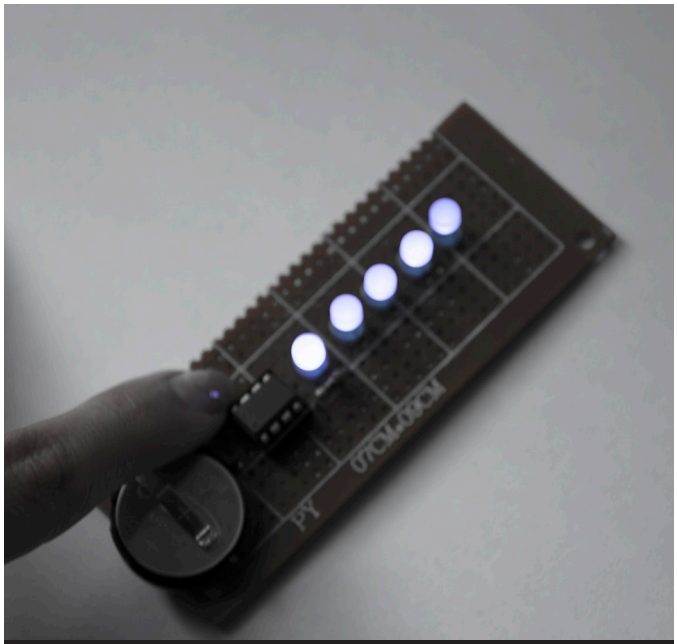
PART 2

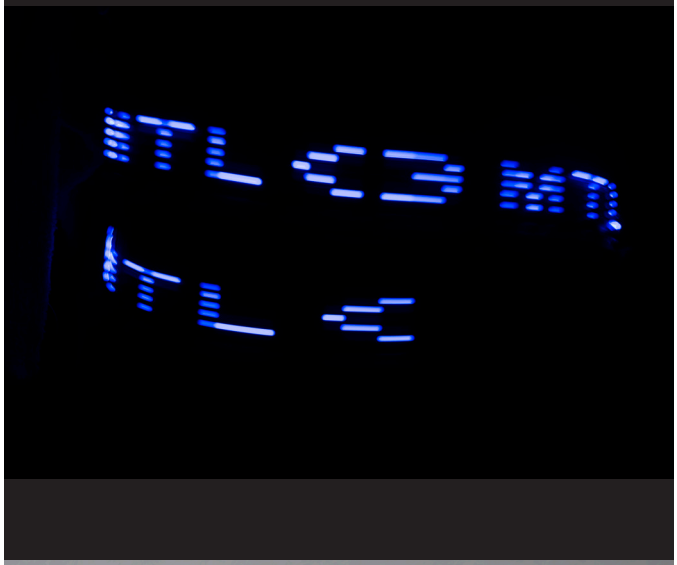
About the schematics, The first one is composed of just one resitance and the second of 5 resistance, one for each LED. Wich mean that the first circuit is in series and the second one is in parallel. Probably the second one is more reliable because if one  resistance fail it would damadge juste one part of the circuit in the other case all LED will suffer. In the first Model the component have all the same current running throught them and in the second the same voltage.

Even if it funny to play and discover the message run by the board I had some difficulty to read a message if we had a full 5x% LED Pad that dispaly each time one complet charachter the experience could be different.

I tried to make an schematic on fritzing, however I am not use to the programm so I just ended with a trial of a 2X5 LED circuit.





FINAL PICTURE