

## Reflection Paul Roelen 1255576

One of the goals I set in my PDP was improving my way of presenting my ideas, improving the way I transfer my ideas in a clear way. I have set this goal because I often have the feeling I don't have the right words to explain something, and in this way the person to who I want to explain my ideas don't fully get the point.

One of the ways I wanted to do this was by improving my prototyping skills, because a good working prototype says more than a thousand words. Although we already started the 3th quartile I wanted to use Creative Electronics to improve these prototyping skills.

At first the course for me was quite unclear. The reason for that was that the physics part of the electronics was explained in the first lectures. After starting with the practice lab sessions and looking at the different components it became a lot clearer.

I like learning from books and/or lectures, but the part from Industrial Design that I like a lot is immediately putting the learned things into practice. I am always interested in the practical application of a theory. I get enthusiastic by it and I learn faster that way. That is the reason that the style of this course helped me a lot to learn the different electrical elements, theoretically but also in practice.

The heating system and mini project really correspond with putting things in practice. Especially with the mini project, you really have to think of a way to apply certain components. And I think this contributed a lot in my way of thinking. The new components and knowing how to apply them give my way of prototyping a lot more possibilities.

I also think that the components can make the circuits and especially the place they take smaller. For project 1 we are making a close-to-body object that has to contain quite some electronics in a relatively small space. We first wanted to use a teensy to code the prototype. But with the components there might be a possibility to buy a smaller board compared to the teensy, because we will need less pins.

One other big advantage of the practical lesson is that we had an introduction in using the equipment to measure your electronics. An example, when I wanted to know the resistance value of a resistor I always checked the color code, but I took a lot of time and was often unclear. Now I have learned that you can very easily check the resistance value with an option of the multimeter. This makes my way of working faster and more precise.

One of the learning points for the next time is making good and clear agreements with my partner. One of the two had to take the electronic parts that you had received the first lesson with them, but we forgot them quite often. The reason for this is that it was quite unclear who had to take the parts and when.

Furthermore, the capacitor was not really explained in depth and there was no practice either. I think it's useful to do some research to the theory and the application of the capacitor because we might want to use it in our project.

Overall I think I have improved a lot on my prototyping, not only my knowledge about the possibilities has grown, my way of thinking about building a circuit and in what way that would be the simplest, fastest or safest has changed. I am really looking forward to making our prototype in project 1.