**Atlantic Technological University, Sligo**

Obrázok, na ktorom je text, vizitka, snímka obrazovky, písmo

Automaticky generovaný popis

Internet of Things

Room Monitoring System

Individual report

## By Martin Strelec

# Role in the project

I had a part in this project as a designer of our housing for the room monitoring system as well as the person who decides how the whole system will be hardwired together. These roles allowed me to design the appearance of the final product, decide on what components will the product contain and generally help our team to achieve the best quality product possible.

# What I have learned

For this project, communication was the most important thing. Even though we were collaborating well, there were still lots of disagreements and opposing thoughts due to each of us being themselves and wanting something different than the others. However, we settled on compromises that in the end made the final product and everyone in the team was happy. The other important thing was scheduling the meetings. It did not seem so at the start but further on I realized that to have at least a prototype would require us to meet more often than in the time during IoT classes. After figuring this out, it was a lot easier, and we all felt like the development was progressing a lot quicker than before.

# Problems and their solution

One of the problems we faced was that we were not able to use the provided code for the standard microcontroller Arduino YÚN. The Blynk app code that was supposed to run on the device was in fact too large to compile and upload to Arduino. After a bit of research and hustle with the Arduino, our lecturer tried to help us by providing different code that was tested and worked well previously. This option was in fact very helpful but in the end, we decided to go a different way. Instead of choosing Arduino YÚN we opted to use another microcontroller with built-in Wi-Fi called ESP8266. We chose this board because it was used by the Blynk team and had tons of resources and guides on how to get the app up and running. This turned out to be a great decision because it allowed us to use the same components as before but with a smaller microcontroller that was better supported. In the future this will allow us to design a more compact and more functional case for the whole project.