**Individual Report**

Fundamentally, I started out acting as a Team Leader from the very beginning, striving to successfully completing the project, as this module is my Achilles' heel, because I have very little experience with embedded systems. This will be apparent later on.

From a technical point of view, through the iterative process of continuously stepping on the same rake I learned A LOT. The whole story started, when I ordered the first sensors, namely **Waterproof DS18B20 Digital Temperature** and **SEN0189 Turbidity Sensor.** Afterwards, I ordered a wrong **Arduino MKR Wifi 1010** which has an operating voltage of 3.3V, while the sensors are 5V. without priorly consulting with my team. Therefore, as a result, I learned that I really need to read that documentation to understand the subject, as well as digging into the topic thoroughly before making any decisions – you have to be 100% sure when you work with technology.

Virtually, throughout the whole project I have been in perpetual cycle of my own mentality and attitude towards the subject: inadequate research together with growing reluctance to deep into the topic with every frustration. In the end, even though as a team we started very early (the first order from rs online in my name dates to 10.02.2025), we ultimately failed to make the project work. By “the project” I mean at the very least one of the sensors successfully sending CORRECT data to Arduino R4, which did not work at all.

What I learned about working on a group project though, is that, in the hardest of times, especially as a Team Representative, I should be the one to rely on, as well as the person in the same boat next to me is the one I should be able to rely on, and that is the kind of team I aspire to. The kind of team, I feel, we ended up growing together.

As I have already outlined many challenges we faced during the project, and the main one – nothing works, the most important thing was to remain persistence and stubborn. This is the only way you can get past hard times and keep going in the middle of despair. It was a truly valuable experience.

So, as a brief summary of the work on this project it can be described like this:

1. Gathered the team with the people I got on well on the previous projects
2. Initiated brainstorming sessions for innovative solutions and ideas
3. Introduced the idea and pushed it through although it was relatively hard for our level of expertise
4. Overestimated my understanding of Arduino board and the sensors we used, which resulted in additional orders and frustration (more money and time wasted, not only mine, but of the whole team)
5. Numerous hours and huge effort of my teammates to make at least one of the sensors work – greater frustration, as no one could achieve any result.
6. Still, we successfully produced a report for the current deadline, happily looking forward to the future, where we will be able to make our idea work in the end.