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How to waterproof an underwater drone?

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Hey there,

In 2018, when we were building our **very first underwater drone**, one question was the most important. **How to make it waterproof?** We didn't figure out how to do that until 2020. Why? Because we **tried to make 3D prints waterproof**.

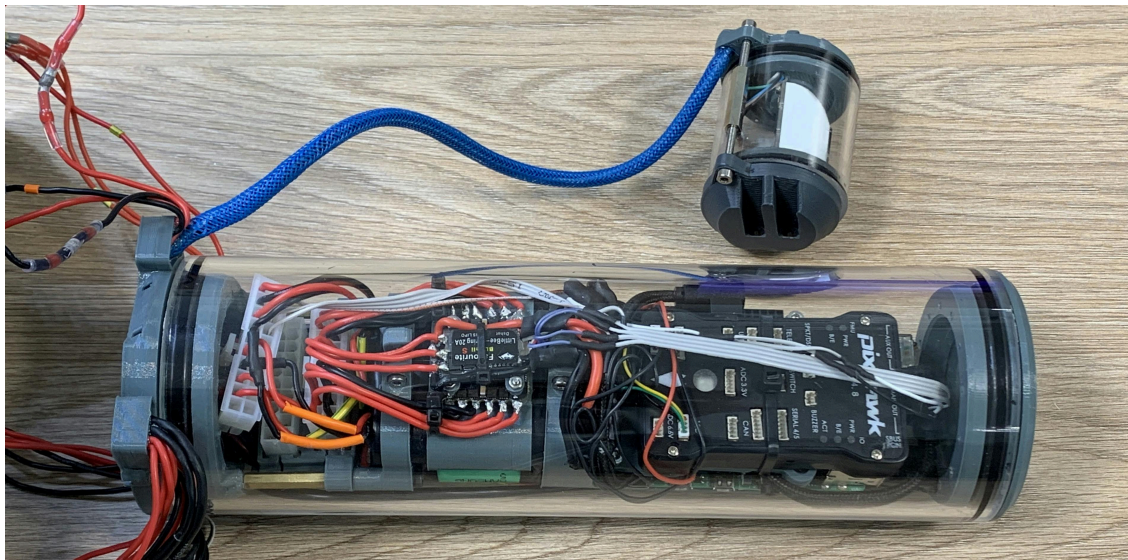
Let me save you some time - **3D prints will never be waterproof**. At least not reliably waterproof to more than 30m underwater. So what's the solution?



Prototypes we worked on at the time - all of them were leaking

You can either try to waste a lot of time trying to 3D print a waterproof body or you can be smart about it.

Our advice is - don't try to reinvent waterproofing, it has been done before. Just get yourself an acrylic pipe, put all of the electronics inside of it - and find a solution to seal the ends of it.



CPS 5 electronics

Now, like we did in the CPS 5, you can then design a fancy body around the electronics pipe to make it pretty and hydrodynamic.

But how do we manage to **seal the the ends of the pipe**, in the CPS 5?

We developed our own method for sealing the ends of an acrylic pipe. If you don't know what it is yet - find out in the course! **"How does CPS 5 work" lesson (chapter 1)** should clear all your doubts. Check it out here:

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Cheers,

Piotrek, CPSdrone

PS: Tomorrow, I'll share the one of the most important issues people face when building an underwater drone. Stay tuned!

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