

**Nov. 21st, 2018**

**Internship in UI & Software Development**

**The company :**

Notilo Plus is a young and innovative startup based in Lyon. Our objective is to develop and sell autonomous and wireless underwater solutions. Because of the countless challenges posed by an underwater environment, a wide range of thematics from acoustic positioning to artificial intelligence is used. The society first product is called iBubble, the first autonomous and wireless drone. Visit http://ibubble.camera for more information.

**Internship description:**

iBubble is able to follow autonomously a diver. It is also possible to control the drone with a gamepad in order to explore the underwater world. In this mode, a smartphone or computer can be connected to the drone where we are able to monitor the drone’s spec and behavior or to see the embedded camera stream in real time.

The goal of this internship is to prototype and develop a user interface for this teleoperated guidance, configuration of an underwater drone and various related tasks. The internship encompasses the design as well as the programming logic of that app.

The intern will be required to program and display statistics acquired from the numerous sensors of the underwater drone.

He or she will also create ways for the Qt application to communicate with our online cloud platform and transfer data in an out.

It will be used internally and externally for B2B applications and demos which will sometimes require specific development. It will also be the company’s primary user interface for machine learning applications.

The intern will take part of drone’s test sessions with the opportunity to test the app in real environment conditions.

**Candidate profile:**

2nd year or final year internship at an Engineering school or equivalent

Interested in programming in C++ in a startup environment

**Technologies that will be used:**

**Qt-related:** Qt, QGroundControl, QML, QGameController, Cross Plateform capabilities (development and build), Qt-Installer-Framework

**General:** C++, Linux (software development platform)

**Protocoles:** Mavlink, HTTP/REST API

**Misc:** Basic UX design knowledge, Basic of Photoshop or similar tool to design small UI elements