

Development of an IoT platform for activity tracking on jewelry, luxury watches and writing instruments

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Project Description

Richemont owns several of the world's leading companies in the field of luxury goods, with particular strengths in jewelry, luxury watches and writing instruments.

The goal of this project is to build a prototype of an IoT platform that could be embedded in a wrist band or directly in a product, in order to collect and transmit data following the activity and the use of this specific product. This project is recommended for those students registered in the EPFL course: EE-490g "Lab On Apps Development For Tablets, Smartphones And Smartwatches".

Specifically, the students' tasks include:

1. Design of the IoT platform including sensors, energy and communication.
2. Production of prototype.
3. Development of a companion App to collect data and display result.

The project will be carried out at EPFL (Embedded Systems Laboratory) and including visits and stages at Richemont International SA in Meyrin or Neuchâtel, Switzerland.

Requirements:

1. Good knowledge of embedded systems architectures and Apps programming (particularly if registered for or already finished the EE-490g course),
2. Good programming knowledge (C, C++, Python etc.) and app development
3. Basic knowledge about signal processing