



## **ZiuZ Visual Intelligence**

*Systeembeheerders (ICT Beheer, IT Service Management, IT Security Specialisten), Business & ICT (HBO-ICT specialisatie BI), Technische Informatici (Technische Informatica),*

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ZiuZ, located in Gorredijk, specializes in developing products that use visual technology. As its goal, ZiuZ wishes to make a global impact through innovative, visual intelligence-based solutions that contribute toward solving problems in society.

**Stage: september 2020 - januari 2021**

Pouch Quality Check via Visual Intelligence

### **PROJECT ASSIGNMENT**

Medication pouches are created by packaging devices. Each pouch has been 'custom' filled for a specific patient, with a specific dose for a specific administration time. It is very important that patients do not mix up the pouches, medication, or administration times since this may harm their health.

The production process of pouches is not perfect. Today ZiuZ products check the content of the pouches via camera(s) and algorithms. In other words, does the pouch contain the exact right pills for that administration time?

But the pouch quality has more aspects like: is the pouch sealed correctly? Is the printing readable? Has the pouch been torn? Etc.

**The assignment**

Investigate methods to and develop software/algorithms that can detect and assess (several) quality aspects of a pouch.

**Expected end result**

A working algorithm that detects certain quality aspects of a medication pouch.

**JOB DESCRIPTION / WHAT'S REQUIRED**

What do we expect from you?

- High level of independency, but still be a team player as well
- Basic programming skills for writing test \ evaluation scripts
- Skills in Image processing and \ or machine learning