

## **ZiuZ Visual Intelligence**

*Engineering 1 (Elektrotechniek, Werktuigbouwkunde), Engineering 2 (Technische Bedrijfskunde, Toegepaste Wiskunde),*

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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**

#### **OMSCHRIJVING OPDRACHT**

Medication pouches are an increasingly popular way to distribute prescription medications. These pouches are created by packaging devices that produce a string of pouches, each one filled with a custom prescription for a specific patient to take at a specific moment.

The production process of pouches is not perfect. Today ZiuZ products check the contents of these pouches using camera(s) and algorithms. ZiuZ products are capable of scanning each individual pouch in a long string and verifying that the contents correspond to the prescription. The heart of this machine is a conveyor system, which ensures that pouches are seamlessly transported under the camera(s), thanks to a carefully designed servosystem. The servosystem, which includes both mechanical and electrical components, must be simple, robust, and economic.

#### **The assignment**

Design a fit-for-purpose servosystem for precision actuation of a conveyor system

#### **Expected end result**

A design and working prototype for a simple and robust servo system including both mechanical and electrical components

**What do we expect from you?**

- Currently studying mechatronics, mechanical engineering or electrical engineering (HBO/WO)
- Experience with servomotors and controller modules (incl. electronics)
- Hands-on approach to designing and developing technical solutions
- Curious demeanor
- Self-starting independent worker
- Team player eager to share learnings