

# Graduation Assignment: Measurement System for Image Intensifier Tubes

<https://www.icdrachten.nl/vacatures/graduation-assignmentmeasurement-system-for-image-intensifier-tubes/>



**Bedrijf:** Photonis

**Locatie:** Roden

**Opleidingsniveau:** HBO

**Periode:** nader te bepalen

**Stage:** Ja

## Introduction

Photonis is a world leader in the Night Vision Image Intensifier Tubes industry. The market of this high-technology challenges Photonis continuously to develop new, smart products and production processes in order to maintain the position as a market leader.

## Summary

Photonis has its peak interest in automation and utilizing intelligent computed robotics for the benefit of relieving ergonomic strain on our production team, reducing variation & increasing yield and efficiency. Throughout the production of the image intensifier tubes, quality inspection plays a prominent role to produce products that meet Photonis' high quality standards. Doing so, we ensure that our clients only get the best quality products and have the highest advantage using state-of-the-art technology.

## Research goal

Development of an industrial grade measurement system for our image intensifier tubes.

Within this assignment you will analyze the existing inspection procedures and continue building upon a more extensive version of the existing measurement system which is already used in production. This contains, controlling a DAQ to actuate pneumatic devices, read-out a variety of sensors including industrial grade optics. Extending the existing GUI and computer vision algorithms (written in Python). At the end of the graduation period, Photonis wants to transfer the extended version of our measurement system to production. You will qualify the measurement system according to a detailed statistical report and work together with one of our computer vision engineers (who will be your supervisor).

### **Contact**

To apply for a graduation internship at our plant in Roden (the Netherlands), please contact us through our website:

<https://www.photonis.com/careers/open-application>

Or send our HR department an email:

[hrm@nl.photonis.com](mailto:hrm@nl.photonis.com)