



hogeschool

Photonis Roden

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

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PHOTONIS is a leading multinational high-technology group, manufacturing electro-optic components used in the detection of ions, electrons, and photons. We innovate and engineer quality components for integration into a variety of applications such as night vision optics, digital cameras, mass spectrometry, physics research, space exploration and many others.

Stage: september 2020 - Januari 2021

"Internship EBCMOS characterization

Building a timer for latency measurements

CONTEXT

In PHOTONIS Netherlands, based in Roden, we develop digital cameras for use under low light conditions.

One of our innovative sensors, the EBCMOS, makes use of a photocathode to transform light into electrons. These electrons are accelerated towards a backside bombarded CMOS and turned into a digital signal. This is a fully digital sensor, able to see in deep dark conditions.

The purpose of this internship is to characterize and where possible optimize all of the elements of this sensor. It will require a good understanding of Physics as well as a hands-on approach in building and using test equipment and software.

TAAKOMSCHRIJVING / FUNCTIEWENSEN

The subject of the proposed internship is the characterize and optimize the performance of our EBCMOS sensor.

REQUIREMENTS

You are a MSc student with a knowledge of physics, instrumentation, and programming.