



**Chris Viviers**  
South African

**Current Residency**  
Rotterdam,  
Netherlands

**Languages**  
English  
Afrikaans  
Dutch A1

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**Looking for**  
Impact  
Challenge

# Christiaan Günter Alwyn Viviers

## Electrical Engineer - Computer Vision

**About me** As a determined and ambitious inventor, I am driven by a desire to make a lasting societal impact. I believe that innovation and technology have the power to positively transform society, and I am dedicated to being at the forefront of that change. With a deep understanding of computer vision and a strong background in engineering, I am uniquely positioned to tackle some of the world's most pressing problems. My passion for innovation and technology drives me to constantly learn, improve and collaborate.

## Experience

### Aug 2018 - Present, Software Engineer at Philips IGTs

Joined Philips Image Guided Therapy systems (IGTs) as a software engineer focusing on improving the quality of the next generation IGT systems. I develop various vision-based technologies to enable surgical guidance and automated testing.

**Best, Netherlands.**

### June 2018 - Dec 2019, Engineering Trainee at Yacht

Part of a program to accelerate personal and technical growth. The goal is to develop specialist engineering skills through intercompany client projects while developing leadership, management and other soft skills through active coaching and guidance.

**Eindhoven, Netherlands.**

### Jan 2016 - Mar 2016, Researcher

Research and Development of Biosensors and Microfluidics at SAND microfluidic laboratory, Stellenbosch University. Successfully developed a biosensor prototype for bacteria detection.

**Stellenbosch, South Africa**

## Education

### 2020 - 2024, PhD. Electrical Engineering

Doctor of Philosophy (PhD.) Computer Vision - Medical Imaging Specialization. Published various works on 3D segmentation in CT to 6-DoF object pose estimation from X-ray.

**Eindhoven University of Technology, Eindhoven, Netherlands.**

### 2016 - 2017, MEng. Electrical & Electronic Engineering

Masters Degree (MEng.) Electrical & Electronic Engineering. Cum Laude. Biotechnology Specialization. Thesis title: The Design and Fabrication of an Autophagy Flux Biosensor.

**Stellenbosch University, Western Cape, South Africa.**

### 2016 - 2019, Online Courses

Various online courses completed

- Machine Learning, Stanford University on Coursera, Andrew Ng
- Full Stack Web Development Nanodegree, Udacity
- Secure & Private AI, Udacity

## 2012 - 2015, BEng. Electrical & Electronic

Bachelor Degree (BEng.) Electrical & Electronic Engineering. Informatics Specialization. Thesis: Development of a Resistive Microfluidic Sensing Device for Pathogen Detection. Awarded the Jac Van der Merwe prize for the most innovative thesis in the Faculty of Engineering 2015.

**Stellenbosch University, Western Cape, South Africa.**

## 2007 - 2011, High School Diploma

Graduated from High School at Oudtshoorn High School.

**Oudtshoorn, Western Cape, South Africa.**

## Skills & Competences

### Programming Languages

- C#
- Python
- C/C++
- JavaScript
- MatLab/Octave
- HTML & CSS

### Platforms

- Blender
- Unity 3D
- Eagle
- AutoCAD: Inventor
- PTC Integrity
- Unix

### Software Frameworks

- OpenCV
- Tensorflow - Keras
- PyTorch
- Bootstrap
- .Net
- Git Version Control

### Other

- Critical Thinker
- Goal Orientated
- Team Work
- Strong Communication Skills
- Hardware Design
- Full stack developer
- Cell Culture
- Data Analytics

## Hobbies & Interests

From a young age, I've loved tinkering with gadgets and exploring new technology in my free time. Traveling is another passion of mine, as I'm constantly curious about different cultures and environments. To unwind, I enjoy digital entertainment or spending time with loved ones after a day of eager learning.

## References

### ○ Prof PHN (Peter) de With

Position: Professor TU/e. Eindhoven University of Technology. Promoting Supervisor.

Email: wjperold@sun.ac.za

### ○ Dr Fons van der Sommen

Position: Associate Professor TU/e. Eindhoven University of Technology. University PhD Supervisor.

Email: wjperold@sun.ac.za

### ○ Prof WJ (Willem) Perold

Position: Vice Dean of research. Stellenbosch. University Undergraduate and Masters degree Supervisor.

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### ○ Prof Ben Loos

Position: Professor Stellenbosch University. Masters co-supervisor

Email: bloos@sun.ac.za