## FREDERIK HOGENBOSCH +31631207424 Developer ∼ Engineer Rotterdam, NL in /in/frederik-hogenbosch-ln SKILLS -INTERESTS -· Reading Languages: C/C++, Python, Matlab, Julia, R, JavaScript, CSS/HTML, SQL. · Playing guitar Technologies: Linux, git, Simulink, ROS, FreeRTOS, · Running and racketball NuttX. **EDUCATION Master Systems and Control** 9/2020 - 7/2024 Delft University Of Technology, Delft, NL with a final thesis on the topic 'Canonical Polyadic Decomposition in Autoencoders for ECG analysis', which was graded with an 8.5. 9/2019 - 5/2020 **Minor Applied Econometrics** Vrije Universiteit, Amsterdam, NL included a 4 week internship at ING Bank, Amsterdam. **Bachelor Applied Physics** 9/2016 - 6/2021 Delft University Of Technology, Delft, NL with a final thesis on "Efficient methods for proton dose calculation", which was graded with an 7.5. **EXPERIENCE** Shore Systems, Delft, NL · Shore Systems develops fully automated hydrogen drones for the purpose of inspecting remote assets. • Responsible for software and controls team. · Developed the avionics for a 30kg drone. · Supervised two interns throughout their internships. · For more information please visit: https://www.shoresystems.nl C++ / Python 9/2023 - 11/2023 Machine Learning Intern | Full time IKEA Digital, Amsterdam, NL · Produced a pipeline for generating training data with the purpose of fine-tuning a Large Language Model. · Managed to finish the pipeline within the first five weeks for the first iteration of the model that was presented to the management board of IKEA. Python / SQL 8/2018 - 4/2020 Software engineer | Full time Silverwing Aeronautics, Delft, NL · Silverwing is a TU Delft Dreamteam that competed in the GoFly Boeing student competition in San Francisco with an autonomous personal aircraft. • Part of the controls team that developed the autopilot software and electronics for a 200kg electric drone. · Implemented the Incremental Nonlinear Dynamic Inversion (INDI) algorithm in the PX4 flight stack. • Developed the groundstation for in-flight monitoring and control of the aircraft. • Fulfilled the co-pilot role during flight testing to manage all in-flight systems. • For more information please visit: https://www.flysilverwing.com

C++ / Python

# 5/2021 - 12/2023 **Web developer | Part time**

TU Delft Library, Delft, NL

 ${\boldsymbol{\cdot}}$  Maintained website themes in the TU Delft style for various faculties.

Javascript / CSS / SQL

# 5/2017 - 8/2017 **Web developer | Part time**

Zite Media, Delft, NL

Developed websites for various clients.

Javascript / CSS / SQL

## 10/2018 - 10/2019 Lecture organizer | Part time

Intelleccie, Delft, NL

Organized lectures on varying topics throughout the year.

· Audiences of 100+ people.

#### LANGUAGES

Dutch - native, English - B2+