MART VELDKAMP

+31 (6) 34493548 ◇ Amsterdam, Netherlands

mart.veldkamp@gmail.com ◇ www.linkedin.com/mart-veldkamp ◇ www.mveldkamp.nl

EDUCATION

Guest student, Technical University Delft   2022 - 2023
Relevant Coursework: Lineair Algebra, Calculus, and Finite Element Methods.

Bachelor Mechatronics & Robotics, Amsterdam University of Applied Sciences   2019 - 2023
Relevant Coursework: Embedded Systems, Computer Vision, Control Technology, and Strength Design.

SKILLS

Technical Skills	Python, C(++), Embedded system logic, AutoCAD Inventor, Linux/bash, ReactJS.
Soft Skills	Communication, Attention to detail, Problem-solving, Teamwork.
Other Interests	Research & Development, Aerospace industry, Testing and Verification.

RELEVENT EXPERIENCE

Mechatronics / Software Engineer (Internship)   Present
NLR - Netherlands Aerospace Centre   *Amsterdam, Netherlands*

- Researching and optimizing real-time GPS position algorithms.
- Developing an in-house module that can identify your current location in C.

Junior Project Engineer (Internship, Parttime)   Feb 2022 - Jan 2023
Eurosort - Automated Sortation Systems   *'s-Graveland, Netherlands*

- Helped achieve a new 45° infeed system for easier package infeed.
- Developed multiple sorter brackets which helped overall stability and stifness.
- Made a scanning module which led to an improvement in scanning quality for flat table package scanning.

PROJECTS

Classifying crossroads. Built a tool to classify crossroad damage for the municipality of Amsterdam by using Python with **Detectron2**. Our solution automated this task with a **97.34% accuracy**. Which led to more crosswalks getting maintained.

Mechanical parts classifier. Built two algorithms to identify Mechanical parts (e.g Nuts & bolts). One of which used more conventional methods like **contour comparing** and other image processing algorithms, while the other used a deep learning model, like **Yolo-V7**.

3D printed RC plane. Build a self made 3D printed RC plane that can actually fly. It was a side project I've been working on for half a year. I had to learn the basics of **plane design** and which components to buy.

EXTRA-CURRICULAR ACTIVITIES

- **SICK Hackathon.** I've been to Hackathon hosted by SICK Sensor intelligence. Here we spent a week working on a pallet stacking algorithm visualised in **C#**. Our idea would reduce the insight and expertise employees would need for optimal package placement entirely. Which would **reduce onboarding costs** for new employees.

- **Student Share Council.** I was on the district council for our school. We came up with ideas to **improve the teaching quality** and gave suggestions. We were also tasked to actively get feedback from the courses and highlight key problems.

CERTIFICATE

- **IELTS Academic Certificate.** Cambridge Inglish Certificate with CEFR level C1.

- **Math T Certificate.** A Certificate in mathematics, it's necessary for pursuing a masters degree.