

FERNANDO CORTE VARGAS

MSc Robotics Student

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📍 Rotterdam, NL

SUMMARY

I am a dedicated, motivated, and detail-oriented MSc Robotics student with a passion for gaming. With a strong set of programming and design skills gained through coursework and personal projects, my career goal is to become a professional video game developer while continuously expanding my knowledge and skills.

SKILLS

Languages: Python, C++, C#.

Libraries: PyTorch, TensorFlow, Keras, scikit-learn, Ray RLLib.

Software: Unity, Aseprite, ROS, MATLAB, CATIA.

Other: Git, Bash, \LaTeX .

PROJECTS

7/2023 - ongoing **Ofrenda**

Currently developing Ofrenda, my first solo-developed video game. This video game is a 2D pixel art puzzle platformer, inspired by the Mexican holiday Día de Muertos. Working on the end-to-end development with C# using Unity, the design of animated sprites with Aseprite, and the design of gameplay mechanics and levels. Aiming to release the game in the medium term.

4/2023 - 7/2023 **Multidisciplinary Project**

Contributed to the software development of a mobile manipulator robot designed to relocate incorrectly placed products on supermarket shelves, in collaboration with Ahold Delhaize. Focused on human-robot interaction to ensure safety and promote engagement with customers in retail environments.

4/2022 - 9/2023 **RSA Projects**

Supported student-led robotics projects with general questions, coding troubleshooting, and member recruitment. Mentored student groups to kickstart their own projects.

EXPERIENCE

7/2021 - ongoing **Senior Host**

X TU Delft

- Lead front desk employee at the sports and culture center of the university. First point of contact for customers and responsible for the handling of complaints and scheduling of other front desk employees.
- Provide online and on-site support for customers, troubleshooting, and emergency response.

9/2022 - 1/2023 **Intern**

Viroteq.ai

- Learned to use Ray RLLib, and learned the basics of Docker and Azure cloud computing services.
- Developed and tested a look-ahead algorithm to enhance the reinforcement learning-based on-the-fly mixed palletizing stacking AI provided by Viroteq.ai.

12/2020 - 1/2022 **Teaching Assistant**

Delft University of Technology

- Helped students with project management, systems engineering, and flight dynamics questions.
- Assisted lecturers with course organization, assignment grading, and communication with students.

EDUCATION

9/2021 - ongoing **MSc Robotics**

Enrolled, currently working on MSc thesis.

Delft University of Technology

9/2023 - 1/2021 **BSc Aerospace Engineering**

Graduated. Minor in Computer Science.

Delft University of Technology

CERTIFICATIONS

Unity Junior Programmer

Unity

Validates skills and competencies to be a proficient junior programmer writing scripts in C# to create interactive experiences with the Unity Editor.

Emergency Response Officer

NIBHV

Validates skills and competencies to provide first aid, contain and fight fires, alert and evacuate employees and all other persons present on the premises in the event of an emergency.

LANGUAGES

Spanish - native, **English** - C1+, **French** - C1, **Dutch** - B2, **Portuguese** - B1, **Dutch Sign Language** - B1