MATTHIJS JAN VAN DER BOON

Currently pursuing a master's degree in Robotics, Systems and Control on a scholarship from ETH Zurich. Cum laude mechanical engineering bachelor with a strong work ethic, organized, and highly conscientious. Curious and creative, not afraid of outside the box solutions. Strong background in team-based project settings and teaching.

Highlights

- Conscientious team player
- Creative solutions
- Results-driven

Contact

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Hard Skills

Proficient: Linux, Git, Docker, Python, PyTorch, ROS, MATLAB, Google Compute Engine, AWS, Blender

Intermediate: C#, C++, Catia, Solidworks

Languages

Dutch	Native
English	C2, CPE score 224/230

Education & Scholarships

2020-current — Master in Robotics, Systems and Control at ETH Zurich, current GPA: 5.5 of 6.

- Received a departmental scholarship (ETH-D) covering full study and living costs for the duration of the master's degree.
- Research project: *„Deep Reinforcement Learning for Catching Space Debris"*.
- Thesis topic: reinforcement learning for package manipulation with the ANYmal on Wheels robot
- Courses include various topics in Robotics, AI, Computer Vision and Game Theory

2016-2019 — Bachelor Mechanical Engineering at the Delft University of Technology with a GPA of 9.0 out of 10 (0.4% of students score 9<=10).

- Thesis *„System Identification for Autonomous Drones"* awarded with an 8.8.

2018 — Minor at the University of British Columbia in Vancouver, Canada.

- Received the Holland Scholarship grant for the exchange program. The grant is available to ambitious and enterprising students .

2010-2016 — VWO, Stedelijk Gymnasium Leiden.

- Final research project *„van A naar Beter"* on application of genetic algorithms to the travelling salesman problem was awarded with a 9.

Work experience

2021-current — **Research intern** at TNO, Netherlands Organisation for Applied Scientific Research. My work is a GAN based VR headset removal system for VR teleconferencing applications.

2019-2020 — **Lead propulsion engineer** at Delft Hyperloop. Led a department of 3 full time engineers. Tasks included managing human, financial, and time resources, as well as performing full time engineering work.

2018-2019 — **Teaching assistant** for dynamics and thermodynamics courses. Tasks included assisting first year students in completing practice exercises, giving lectures on examples, as well as checking final exams.

2018-2019 — **Private tutor** in math and physics for high school and university students

Extracurricular activities

2014-2015 — Junior TU Delft project – *„Rocket Scientist in 5 days"*. A 5 day program for motivated high school students introducing a full engineering design cycle.

2014-2015 — LAPP-Top project Leiden university (science program). Introductory classes to physics for motivated high school students. Subjects included the wave-particle duality and electron microscopy.

Hobbies and interests

I enjoy playing piano and have been doing so for over 15 years. My focus here is on classical music. Aside from that I enjoy weightlifting to stay fit both physically and mentally.