MARNIX VAN DEN BERG

MSc. Automotive Technology, BSc. Aerospace Engineering

(they/them)

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I am a multifaceted engineer driven by curiosity both inside and outside my field of expertise. Experienced in project leadership and a proven ability to work in dynamic, fast-changing, and constrained environments. I am an engineer who knows how to explain complex topics in layman terminology.

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Education

Eindhoven University of Technology **2022 – 2026**

Master of Science, Automotive Technology *Eindhoven, The Netherlands*

↳ Thesis report: *Evaluation of Invertible Neural Networks for Localization with Varying Sensor and Environmental Conditions*

Delft University of Technology **2019 – 2020**

Minor, Modern Physics *Delft, The Netherlands*

↳ Final report on potential cancer treatment method: *ROS Formation with TiO_2 Irradiated by Low Energy X-Rays and High-energy Gamma-Rays*

Delft University of Technology **2017 – 2022**

Bachelor of Science, Aerospace Engineering *Delft, The Netherlands*

↳ Thesis design project: *FireFly: a high-rise disaster aid aircraft*

Certificates

Delft University of Technology **2020**

Radiation Protection Officer dispersible radioactive materials, Level D *Delft, The Netherlands*

Experience

Educator **2023 – Present**

COC Tilburg-Breda *Tilburg, The Netherlands*

- Facilitate workshops and interactive lectures on sexual and gender diversity for primary, secondary, and higher education institutions, as well as commercial and governmental organisations.

Event Crew Member **Mar 2025 – Mar 2025**

Queer.Red: Film and Arts festival *Amsterdam, The Netherlands*

- Assisted in event setup and breakdown.
- Performed in a supporting role in a cabaret production.
- Sold merchandise, managed ticket checks, and guided attendees around the venue.

Autonomous Systems Engineer **Feb 2024 – May 2024**

Strategic Protection of Threatened Species (SPOTS) *Dinokeng Game Reserve, South Africa*

- Developed and trained a free-space detector AI model to be used for self-driving patrol vehicles.
- Developed and implemented a software-controlled throttle controller for the self-driving Suzuki Jimny JB74.
- Implemented wireless remote vehicle control.

Projects

Dynamic Dunes (TU/e Art & Tech) **2023**

- A multidisciplinary art installation made with auxetic material to represent the ever-changing Dutch coastlines.

Skills

Languages: Dutch *(Native)*, English *(Fluent)*, German *(Limited)*

Technical Skills: Python, Matlab, Simulink, Pytorch, Blender, FreeCAD, CATIA, KiCAD, Godot, HTML, CSS, LaTeX, Typst, ROS

Professional Traits: Multidisciplinary team player, versatile, curious, creative thinker, driven

Professional References

Johan Benade: *BenadeJG@tut.ac.za / +27 82 855 5680*
(internship supervisor SPOTS)

Gijs Dubbelman : *https://tue.nl/en/research/researchers/gijs-dubbelman*
(thesis committee member)

Jos den Ouden: *https://tue.nl/en/research/researchers/jos-den-ouden*
(internship supervisor TU/e)

Isolde Hallensleben: *i.hallensleben@tue.nl*
(Art&Tech course teacher)