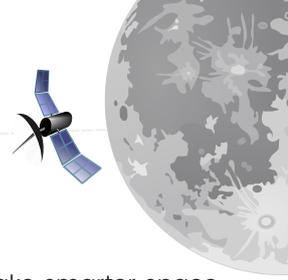


WESLEY J.A.G. DE VRIES



SPACE SYSTEMS ENGINEER

I like to bridge the gap between the space industry and AI to make smarter space instrumentation in order to increase technical possibilities for small satellites. I have focused on (micro)-satellite engineering, optics, and machine learning. At TU Delft, Artemis study association, and my own company, I learned to collaborate efficiently with peers with technical - and clients with financial - or communication backgrounds. Thus, I do not just bridge gaps between technologies, but also between people: I would like a cappuccino with sugar, what can I order for you?

Contact

- 1995, The Netherlands
- +31 6 101 26 858
- Wesley@AerospaceEngineer.eu
- Stieltjesweg 388,
2628CK Delft,
The Netherlands
- [LinkedIn.com/in/wesleyjagdevries](https://www.linkedin.com/in/wesleyjagdevries)

Character traits

Persevering | Helpful | Curious | Honest

Hobbies

Cooking | Swimming | Electric guitar |
Gaming | Watching the news | Playing
with newly released consumer
electronics | Tweakers.net |
Photography | Sci-fi shows

Lingual skills

Dutch

English

German

Software skills

Python | Pytorch | Tensorflow | Matlab |
OpenCV | Anaconda | Linux | PC | Git |
CATIA | Solidworks | CURA | CMD | Unix
bash shell | Adobe suite | Wordpress |
Plesk | Microsoft office |

Awards

Reviewer of the year - Tweakers.net
awards (2017-2019)
Best idea - NL Space Campus & GNSS
CoE (2022)



Education

Delft University of Technology 2020 - Present

MSc space systems engineering (Focus on AI)

Theoretical lectures were alternated with practical group projects to improve soft skills

- **AI:** machine learning | deep learning | computer vision | machine perception | evolutionary algorithms | space-embedded systems | system identification
- **Instrumentation:** space instrumentation | control for adaptive optics
- **Satellites:** micro-propulsion | micro-sat engineering | spacecraft thermal control
- **Space-related:** astrodynamics | planetary sciences | space systems engineering
- **Hands-on:** see "projects below" | Python 3 | Arduino | Raspberry Pi | 3D-printing | sat-data

Delft University of Technology Graduated (2020)

BSc space systems engineering

Aero-, electro-, thermo-, orbital-, flight dynamics | materials and structures | differential calculus | aircraft & spacecraft design | computational modelling | CAD | group projects

University of Queensland Graduated (2019)

English grammar & style

Delft University of Technology Graduated (2017)

Minor programme spaceflight

Electronic Circuits | Planetary sciences | Exoplanets | Satcom | Satellite design project

Projects

- Designed smart battery for spacecraft using AI and Arduino
- Analyzed Delfi-N3Xt satellite forensics using satellite data and Python
- Selected electric micro-thruster for ESA's lunar CubeSat mission LUMIO
- Designed sun sensor and modelled its behaviour
- Designed a simple Ritchey-Chrétien telescope using the ray-tracing application FORTA
- Published reproducibility project on promising deep learning architecture
- Implemented Google Waymo's perception 2020 dataset for self-driving cars
- **BSc grad. project:** Designed innovative energy harvesting method above the clouds

Work Experience

Artemis Study Association 2022 - Present

Commissioner of Internal Affairs

- Managed starting up of Artemis and strategic management
- Responsible for educational affairs & legal advice
- Organization of events, e.g. lunch lectures and colloquia
- Developed complete website [Artemis.tudelft.nl](https://www.artemis.tudelft.nl)

Astronautech 2018 - 2022

Owner, CTO

- Led complete functioning of the business incl. strategic management.
- Maintained contact with clients: Philips, ASUS, Logitech, TPV-Tech, and BKK Electronics
- Performed R&D, product verification & validation, and report writing & publishing
- Developed complete website [Astronautech.com](https://www.astronautech.com)