Jurre Anckaert

Aerospace Engineering Student | Captain, BE-Rocket | Bilingual NL/FR · Fluent EN

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Profile

Aerospace engineering student and student-team captain, equally at home in Dutch, French or English (both NATO working languages) and fluent in English. Specialising in propulsion and applied space systems. Captain of an inter-university rocketry team of 60+ members, partnered with the Belgian Royal Military Academy, with industry project experience at Redwire Space. Strong interest in space defence, Space Situational Awareness and emerging technologies.

Education

KU Leuven: M.Sc. Aerospace Engineering 2025 - present
Master's thesis: Python digital twin of a liquid rocket engine, studying in English Leuven, Belgium

- Coursework in propulsion, satellite navigation & communication; orbital mechanics (2026-27).

Ghent University (UGent): Electromechanical Engineering 2023 – 2025
Engineering foundation: mechanics, control, thermodynamics, electronics, studied in Dutch Ghent, Belgium

CUPGE Lyon: Mathematics & Physics (Classe Préparatoire) 2023
Selective French preparatory programme for the grandes écoles, studied in French Lyon, France

Baccalauréat: awarded with highest distinction (*mention très bien*) 2022
Secondary education completed across Belgium and France Comines (BE) / Digne-les-Bains (FR)

Experience

Be-Rocket: Captain & Propulsion Engineer 2024 - present
Inter-university rocketry team, 60+ members across 7 universities Belgium

- Grew the team from 20 members and 1 project to 60+ members across 3 active launcher projects.
- Doubled the operating budget through industry and institutional partnerships.
- Principal interface with the **Royal Military Academy**: planning launches on military domain and producing the safety documentation required for authorisation.
- Lead high-level technical decisions; propulsion modelling with RocketPy, CoolProp, CEA and Simulink.

Redwire Space: Integrated Industry Project 2024 (6 months)
Point-of-contact detection tool for the IBDM ISS docking mechanism Belgium / Europe

- Built a MATLAB tool detecting the contact point of the International Berthing and Docking Mechanism; scoped, supervised and reviewed by Redwire engineers.

Domaine de l'Adoux: IT Manager 2025
Full IT modernisation of a hospitality business France

- Delivered new website, domain and email-server migration; rebuilt the Wi-Fi network infrastructure.

Domaine de l'Adoux — Second de Cuisine 2023
Kitchen leadership role following a season as activity leader France

Technical Skills

Programming	Python, C++, MATLAB / Simulink, VBA
Simulation	RocketPy, CoolProp, CEA Wrap, digital-twin modelling
ML / AI	Neural-network training with Keras / TensorFlow
Engineering	SolidWorks (CAD), propulsion analysis, systems integration
IT / Other	WordPress, UniFi networking, Microsoft Suite
Languages	Dutch & French (native / bilingual, both NATO working languages), English (fluent, C1)

Leadership, Volunteering & Achievements

- **Ambassador, Velo-Afrique**: non-profit supporting school infrastructure in Africa.
- Certified ski instructor and youth camp leader (2019–21); diploma in classical piano (2020).
- Marathon d'Annecy (2021); 700 km *Tour de Wallonie* bikepacking expedition (2018).