Alexander **Coen**

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About me

I'm a passionate 23-year-old engineer currently pursuing an additional master's degree in Electromechanical Engineering with a specialization in Mechanical Construction. I am eager to tackle challenges, adept at handling responsibilities, and have a solid technical background.

Education

Ghent University
Master of Science - MS in Electromechanical Engineering: Mechanical Construction *Sep 2023 – Jun 2025*

Ghent University
Master of Science - MS in Electromechanical Engineering Technology *Sep 2022 – Jun 2023*
Magna cum laude

Ghent University
Bachelor of Science - BS in Electromechanical Engineering Technology *Sep 2019 – Jun 2022*
Cum laude

Experience

Soete Laboratory - Ghent University *Ghent, Flanders, Belgium*
Master thesis student *Sep 2022 – Jun 2023*
Wear investigation of dynamic shaft seals for aerospace applications.

UGent Racing *Ghent, Flanders, Belgium*
Team Electrical - High Voltage Cooling Engineer *Sep 2024 – Sep 2025*
Providing cooling solutions for the car battery and power electronics of the autonomous electric Formula Student race car.

Skills

Engineering software: CAD/CAM, Computer aided engineering (CAE), Finite element method (FEM)
Python & Matlab: Data visualization and calculations
Team work: Fulfilling an 8 month long project with a team of more than 90 students

Languages

Dutch: Native proficiency
English: Full professional proficiency

Projects

Design of a sectional door *Siemens NX*

A multifaceted project encompassing design, material selection, drive dimensioning, structural analysis, risk assessment, and compliance with European standards in electromechanical engineering.

Computer aided manufacturing of a turbine impeller *Siemens NX*

Preparation of a complete technical file with production drawings, machining strategy, tool selection and machining parameters.

Analysing acceleration and braking performance of a vehicle *Python*

Calculating acceleration and braking parameters of a commercial vehicle, based on technical specifications.