

ARNOUT GROEN

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Education

Amsterdam University of Applied Sciences

Bachelor of Mechanical Engineering - (AVG.: 7,5/10)

Sep 2022 – Aug 2026

Amsterdam, The Netherlands

Keizer Karel College

Secondary education (HAVO) – Nature & Technology - (AVG.: 6,5/10)

Sep 2017 – Aug 2022

Amstelveen, The Netherlands

Skills

Designing tools: Autodesk Inventor (incl. Nastran), AutoCAD, Fusion 360

Data & computational tools: Python, Microsoft Excel (advanced functions & modeling), PowerBI

Manufacturing & prototyping: Rapid prototyping using 3D printing, Laser cutting, and testing

Projects

High End Bookshelf Speakers | *Inventor, Excel, Xsim, Fusion 360*

Jul 2024

- Designed HiFi speakers using Dayton Audio driver and crossover components to enjoy good audio on a lower budget
- Configured my own crossover circuit via Xsim to get the optimal performance from the woofer and the tweeter
- Designed a speaker cabinet in Inventor Professional using a parametric design powered by Excel
- Tested base frequencies of the cabinet with the use of Inventor Nastran FEM analysis
- Made and ran Gcode using the Fusion 360 CAM package to CNC speaker cabinet parts

Unmanned Aerial Vehicle | *Inventor, Python, Merlin simulator*

Jun 2025

- Designed and simulated UAV performance using Python and Merlin, validating aerodynamic and mission requirement
- Engineered lightweight composite airframe to balance structural integrity with cost-efficiency
- Integrated autonomous flight systems including telemetry, GPS, and onboard sensors for navigation and data acquisition
- Executed successful autonomous mission carrying a payload to a designated location, demonstrating system reliability and flight stability

Geolocation & market analysis | *Python, Excel, QGIS, Powerpoint*

Mar 2025

- Conducted market and geospatial analysis to support investment decisions, focusing on regional demand and hotspots
- Collected and processed data on POIs, demographics, and other spatial-economic factors to extract valuable insights
- Developed investor-ready presentations, translating complex datasets into clear narratives using charts, heatmaps, etc
- Leveraged Python for data cleaning and Excel/QGIS for spatial and market trend visualization

Work Experience

Machined4You

Mar 2025 – Present

Project Engineer

Amsterdam, The Netherlands

- Conducting market research and data analysis to identify design opportunities, contributing to investor presentations and product development strategy
- Designing and reviewing mechanical assemblies for manufacturability, ensuring alignment with production requirements
- Organizing and leading weekly meetings, improving team communication and keeping development on track

VOSTA LMG

Aug 2024 – Feb 2025

Mechanical Engineer Intern

Hoofddorp, The Netherlands

- Researched, developed, electrified, and replaced a hydraulic anchoring system to reach the company's emission goals
- Acquired communication skills towards both internal and external contacts, and used those skills to collaborate with different companies to develop an optimal system
- Wrote a comprehensive report detailing the whole R&D process and decisions made during that process

Certifications & Additional Training

Python for Engineers | *Python (VScode online)*

July 2024

- Learned the basics of Python using datastreams & libraries to process and compute data

Maintenance | *ISO maintenance & safety protocols*

Feb 2024

- Learned how to systematically manage and maintain mechanical systems in a workplace environment