# Nguyen **Ngan**

## Mechatronics | Fontys


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Current Location : Weert, Netherlands.
Born on July 07, 2006 (20 years old)


Mechatronics student at Fontys with a hobby of cosplaying! I tweak my own props and enjoy designing characters' sci-fi weapons. This hobby had taught me a lot about Solidworks and creative designing processes. I enjoy speedrunning working proof of concepts and prototypes for my hobbies and looking for hands-on learning experiences.

## Skills

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|---|---|
| **Programming :** | Python, C++, PyTorch, HTML 5, CSS, JavaScript, LaTeX |
| **Robotics & Control :** | PX4 Autopilot, LabVIEW |
| **Design & CAD :** | SolidWorks, CAD/CAM, KiCad |
| **Development Tools :** | Visual Studio, Pycharm, Git, MATLAB/Simulink, Kaggle |

## Engineering Projects

**February, 2025 – July, 2025** | **Drone Challenge, BIC, Eindhoven**

- Implemented Machine Learning models using Python and PyTorch for real-time object detection.
- Integrated PX4 flight stack for autonomous navigation and stability control.
- Optimized sensor fusion algorithms to improve flight accuracy in constrained environments.

Python | PyTorch | PX4 | OpenCV | Robotics

**September, 2024 – February, 2024** | **Modular Steel Ball Accelerator, Fontys University, Eindhoven**

- Designed mechanical components and modular housing using SolidWorks.
- Developed control logic in C++ to synchronize timing and acceleration sequences.
- Handled the electronics of the coils and the GUI via Pygame.

SolidWorks | C++ | Electronic Design | Pygame

## Work Experience

**September, 2025 – Present** | **Kitchen Aid, Restaurant Azie, Weert**

- Prepared ingredients and assembled dishes, supporting the chefs at peak volume.
- Ran the dish station, keeping cooking utensils clean.
- Maintained workstation hygiene and equipment in line.
- Coordinated with kitchen and front-of-house staff to keep orders moving on time.

Horeca | Teamwork | Working under pressure

## Education

2024 – Pres. **BSc Mechatronics Engineering**, Fontys University of Applied Sciences, Eindhoven

2021 – 2023 High School, Vinschool Central Park, A-Levels certificates