David **GENOTELLE**

Medical Mechatronics Engineering Student

Personal Information

Nationality: French
Date of Birth: 30/06/2003
Driver's license

Technical Skills

Programming
- Python, C++, Java, ROS2
- MATLAB, LabVIEW
- Arduino, LaTeX

AI & Data
- Machine & Deep Learning
- VLA, CNN
- Transformers, PyTorch

CAD Software
- PTC Creo, Fusion 360
- Cura/Bambustudio, Trotec
- Proteus, QElectrotec

Robotics
- Robot modeling and control
- Sensors and actuators
- Mechatronic system integration

Languages

- French (Native)
- English (TOEIC C1)
- Spanish (B1)

Interests

- Guitar (Since 2009)
- ULA Pendulum (Pilot License)
- Build & Craft stuff

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Education

2025–2026 | **Telecom Physique Strasbourg**
International Research Master IRIV HealthTech · Master's degree
Health Technologies

2021–2026 | **National Institute of Applied Sciences**
INSA of Strasbourg · Fifth year
Mechatronics Engineering

Jan–June 2025 | **International Mobility in South Korea**
DGIST · Daegu
Medical Imaging, Robot Locomotion and Compliant Electronics

Work Experience

2025–2026 | **Final Year Project & Engineering Insternship - Medical Robotics**
11 months – ICube · IHU Strasbourg
Developing a robotic scrub nurse assistant using Imitation Learning *(AI Control method)*, training a bimanual robot through teleoperated demonstrations to perform surgical handling tasks.

2025 | **R&D Intern in Mechanics**
2 months – ORTHOPUS · Nantes (44)
Redesigned and optimized a tripod for a medical exoskeleton, improving stability, weigh and footprint using CAD, theoretical modeling and bench testing.

2024 | **Aircraft Mechanic Intern**
1 month – Delta Aquitaine Diffusion · Montpezat-d'Agenais
Assisted in the maintenance, inspection, and assembly of Ultra Light Motorized (ULM) aircraft.

Projects

2023–2025 | **Low-Tech Automated Greenhouse Project**
INSA · Strasbourg
Led the design and development of an automated greenhouse ventilation system, defining the electronic architecture and programming the control system in C++ to regulate temperature and humidity. *See Github project*

2025 | **Student Fablab Technician**
Ideas'Lab · INSA Strasbourg
Assisted students with safe use of manufacturing machines (3D printing, laser cutting) and helping their part production.

2023 - 2025 | **Junior-Entreprise Projects**
AEP · INSA Strasbourg
Optimized a rangefinder with UWB protocol; designed and produced a suitcase (3D printing, laser cutting).

Don't hesitate to look at my Portfolio : *https://davidgenotelle.github.io/Portfolio/*