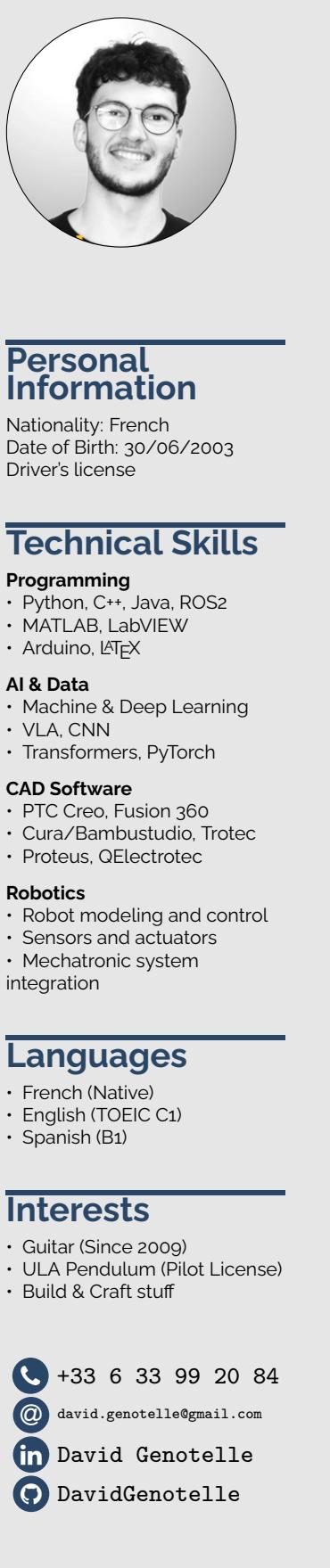


# David GENOTELLE

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, L<sup>A</sup>T<sub>E</sub>X

### AI & Data

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

### CAD Software

- PTC Creo, Fusion 360
- Cura/Bambustudio, Trotoc
- 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	<b>Telecom Physique Strasbourg</b> INTERNATIONAL RESEARCH MASTER IRIV HEALTHTECH · Master's degree  Health Technologies	
2021–2026	<b>National Institute of Applied Sciences</b> INSA OF STRASBOURG · Fifth year  Mechatronics Engineering	
Jan–June 2025	<b>International Mobility in South Korea</b> DGIST · Daegu  Medical Imaging, Robot Locomotion and Compliant Electronics	

## WORK EXPERIENCE

2025–2026	<b>Final Year Project &amp; Engineering Internship - Medical Robotics</b> 11 MONTHS – ICUBE · IHU Strasbourg Developing a robotic scrub nurse assistant using Imitation Learning ( <i>AI Control method</i> ), training a bimanual robot through teleoperated demonstrations to perform surgical handling tasks.	
2025	<b>R&amp;D Intern in Mechanics</b> 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	<b>Aircraft Mechanic Intern</b> 1 MONTH – DELTA AQUITAINE DIFFUSION · Montpezat-d'Agenais Assisted in the maintenance, inspection, and assembly of Ultra Light Motorized (ULM) aircraft.	

## PROJECTS

2023–2025	<b>Low-Tech Automated Greenhouse Project</b> 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 <i>Github project</i>	
2025	<b>Student Fablab Technician</b> IDEAS'LAB · INSA Strasbourg Assisted students with safe use of manufacturing machines (3D printing, laser cutting) and helping their part production.	
2023 - 2025	<b>Junior-Entreprise Projects</b> 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/>