Quentin PETIT

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Looking for an opportunity to apply my knowledge and learn from a cause I care about.

Education

ISAE-Supméca, Paris, France　　　　　　　　　　　　　　　　　　　*2022 - 2025*
Master of Science in Mechatronics
Relevant Coursework – Optimization, Automation, Mechatronics systems, C++, Computer Vision

Preparatory Class, Pierre Corneille, Rouen　　　　　　　　　　　*2020 – 2022*
Equivalent of Bachelor of Science
Highly rigorous programs that prepare students for competitive national exams to enter top engineering schools in France.

Work Experience

KNDS France Robotics, Versailles, France　　　　　　　　*Sep 2023 – Feb 2024*
European Leader in the Defense sector for armored vehicles and artillery systems
Mechatronics Intern
- Designed a mechanical test bench for the electronic boards of armed robots with *Catia*
- Created the test bench's main electronic board with *Altium*
- Developed test automation with an intuitive interface
- Facilitated communication among project stakeholders including service providers and end-users

RATP Group, Vélizy, France　　　　　　　　　　　　　　　　　　　*Jan 2023*
Major global public transport operator headquartered in Paris
Operator Intern
- Conducted pre-operational inspections and maintenance on over 40 tramways
- Analyzed operational data through CAN from tramway sensors to identify and troubleshoot faults

Personal Projects

Curva (Freelance) – *Hypothesis Testing, Data Analytics, Data Visualization, UX Research, Entrepreneurship*
- Led data-driven experimentation for over 20 retailers, enhancing website through hypothesis testing and user experience research.

Educational Wheel Robot – *Catia, Altium, Computer Vision, C++, Python*
- Engineered the complete hardware and software integration of the robot with sensors and motor BLDC
- Programmed the robot using C++ to handle elementary tasks like data collection or motor control (PID)
- Implemented basic machine learning algorithms for obstacle detection in Python
- Designed a user-friendly interface in Blockly for young students to control the robot

Skills & Languages

Software : Python, C, C++
Hardware : STM32, PIC, ATMega
Project Management : Jira, Asana, Trello (Scrum)
CAD : Catia, Altium, Solidworks, NX
Numerical Calculation : Matlab
System Engineering : Cameo Systems Modeler, Dymola
Web Development : React, NextJS…
BDD : SQL, MongoDB
Languages : French (Native), English (Fluent) and Italian (Basic)