Julien-Alexandre BERTIN KLEIN

Information Engineering Student

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Education

10/2023 – present **B.Sc. Information Engineering**, *Technical University of Munich, Campus Heilbronn*
- Software Engineering (Agile methods, Git, Design Patterns)
- Object Oriented Programming (C++, Java)
- Computer Architecture, Operating Systems (Linux)
- Computer Networking and IT Security
- Algorithms and Data Structures
- Embedded Systems and Robotics

09/2020 – 06/2022 **DUT Informatique**, *IUT Robert Schuman, University of Strasbourg*
- Unix Systems (C, Bash)
- Databases (SQL, PL/SQL)
- Web Development (HTML, CSS, JavaScript, PHP/Laravel)

09/2017 – 06/2020 **Baccalauréat Scientifique**, *Marc Bloch High School, Bischheim*
- Specialty: Engineering Sciences
- Option: Cinema-Audiovisual
- Graduated with honors

Professional and Personal Experience

05/2023 – 10/2023 **Voluntary Service**, *La Cab'Anne des Créateurs, Schiltigheim*
- Development and animation of cultural projects related to digital
- 3D Printing, Laser Engraving, CNC Machines
- Computer training for beginners

Projects

2025 **Automated Connect 4:** 3D-printed automated Connect 4 game. Software integration for the computer vision and backend for the UI (Vue.js)

2024/2025 **Duckietown:** Autonomous driving robot powered with ROS and Python. Amelioration of the lane following and creation of a modern web dashboard.

2024 **Game of Life CLI:** Implementing Conway's Game of Life in a menu-driven CLI using C++ and ncurses.

2022 **Responsive Music Player:** Developed with Node, Express & React. Focus on responsive UI/UX using API and websockets.

Languages

French	Mother tongue
English	Reading/Listening, Writing/Speaking: C1 (Autonomous)
German	Reading/Listening: B1 (Intermediate); Writing/Speaking: A2 (Elementary)

Skills

Programming	JavaScript (React, Node), HTML/CSS, Python, C/C++, Java, PHP (Laravel)
Tools	Git, GitHub Copilot, Linux, SQL/PL SQL
Soft Skills	Autonomous, Resilient, Creative, Enterprising, Open-minded, Team Spirit