Education

**Bachelor, Faculty of Automatic Control and Computer Science, National University of Science and Technology POLITEHNICA Bucharest** (2023 – Expected 2027)

**“Bogdan Petriceicu Hasdeu” National College Buzău** (2019 - 2023)

Core skills & achievements

* Programming: C/C++, Java, Python, Assembly x32
* Web Development: HTML, CSS, Next 13.4, React JS
* Technologies: Bash, Git/GitHub, GNU Octave
* I was awarded a bronze medal at the Romanian National Olympiad of Physics in 2019.

Individual Projects

**Image Editor (C Programming) – Source code:** <https://github.com/DaniGM32/C-Projects>

* Created a command-line image editor using C, allowing users to perform a range of image manipulation tasks including loading and saving images, applying filters, cropping, horizontal flipping, rotating, extending the canvas, and embedding one image within another.
* Showcased strong skills in memory management throughout development.

**Timestamp Conversion, Bit Packing, and Event Planner (C Programming) –**<https://github.com/DaniGM32/C-Projects>

* Developed a comprehensive project in C with two key components: timestamp conversion and event planning. I implemented Unix timestamp conversion functions, accounting for leap years and time zones to display human-readable formats.
* Designed and optimized bit-packing algorithms for efficiently sorting and extracting specific data from packed data. I also created a robust event planning tool that manages scheduling across multiple time zones, analyzes participants' availability, and identifies optimal meeting times for the required number of attendees.
* Emphasized code readability, scalability, and adherence to standards, ensuring seamless integration across both components.

**Data parsing and analysis using Titanic passenger dataset (Python Language) -** <https://github.com/DaniGM32/PythonProject>

* Developed a Python project focused on efficient data parsing, cleaning, and analysis. I implemented functions to handle diverse datasets, structuring and extracting meaningful insights from raw data.
* Performed filtering, sorting, and potential statistical evaluations to derive actionable information.
* Prioritized readability, modularity, and scalability in the code, ensuring ease of future integration and adaptability for various data sources.
* Showcased strong skills in Python development and data processing techniques.

Collaborative Projects – Volunteer Work

* I established a First Tech Challenge team called “Heart of RoBots” during my 11th-grade year, collaborating with fellow students. In this endeavor, I assumed the primary responsibility of serving as an engineer, overseeing the construction of robots.
* I held membership in the Interact Club within my hometown, an affiliate of Rotary International, a charitable organization.
* I was a member of the high school basketball team.

Language

Romanian – native

English - B2