Hélène HASSAN

Contact

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🌐 **https://helenhsn.github.io/**

⌨ https://github.com/helenhsn

21 years

Linguistic

English (B2+ / TOEFL : à venir)

Spanish (B1+)

Arab (A1, only spoken)

Japanese (A2)

Skills

Programming

- **C**
- **Python**
- **HTML**
- **CSS**
- Javascript
- VHDL
- Bash

Office

- **Suite Google (Slides, Sheets, Documents…)**
- **Suite Office (Word, Excel, PowerPoint…)**
- **LaTeX (TexStudio, Overleaf)**

Interests

Music *(clarinet, guitar)*

Climbing *(bouldering, rock climbing)*

Game development

Reading *(mostly scientific)*

Second-year engineering student in computer science seeks an internship for 2 to 3 months in mathematical modeling or graphics.

Schooling

Since September 2021	**Ecole Nationale d'Informatique et de Mathématiques Appliquées de Grenoble (ENSIMAG)** ***Specialty*** *: mathematical modeling, vision, graphics and simulation*
September 2019 – June 2021	**La Prépa des Instituts Nationaux Polytechniques (INP) de Grenoble** *Intensive preparatory classes. Courses mainly related to maths, physics and chemistry.* ***Ranking*** *: head of the year*
September 2016 – June 2019	**Lycée du Grésivaudan, Meylan** *Secondary school. Courses in maths, physics, biology and chemistry.* ***Diploma*** *: Baccalauréat (A levels) /* ***Ranking*** *: highest honours (19,18/20)*

Professional experiences

18 July 2022 - 8 August 2022 (3 weeks)	**Seller at Ikea Grenoble** *Handling of the clients' requests, restocking and maintenance of the shelves.*
November 2021 - Mars 2022 (4 months)	**Mentoring at la Prépa des INP** *Dispense of courses related to mathematics, physics and chemistry to two first-year students who experienced difficulties in these classes.*
May 2021 – June 2021 (6 weeks)	**Internship at LDLC, Saint-Martin-d'Hères** *Computer set-ups (installation of Windows OS, assembly of the computer's components). Restocking (packages reception, placement in the shop…)*

School projects

- **Modelisation of Monte Carlo's Method in python (from scratch), solo work**

Computation of pi's approximation using Monte Carlo's method with the given parameters in the command line. Generation of a GIF showing the evolution of pi's approximation using .ppm images. Each approximation is written on each frame using a 7-segment display for each digit.

- **Library for graphical interfaces in C, teamwork**

Library entirely coded in C, similar to tkinter in python (uses the concept of widgets and geometry managers to place elements on the screen). This library handles the addition of new types of widgets and geometry managers by the user.

Personal projects

August 2022 - September 2022	• **Raycaster in C using SDL library** *Graphical interface built from scratch with SDL. Allows the user to render light and shadow and creating obstacles (lines, curves, rectangles, etc…).*
Since June 2022	• **Website** *Small website built from scratch to present my CV and my projects. No framework was used for the Javascript part. Go check it out ! (link above in the "Contact" section)*