Davide Glafiro

Software Engineer

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SKILLS

- Programming Languages: C, C++, JavaScript, Python, PHP, GLSL
- Web Technologies: HTML, CSS, Node.js, React, Web Audio API, WebGL
- Frameworks and Libraries: JUCE, Arduino, OpenGL, OpenCV, raylib, Godot
- Version Control: Git
- Multimedia and Graphics Tools: Blender, Adobe Illustrator, Adobe Photoshop, Figma
- Audio and Music Production: Ableton Live, Steinberg Cubase, Reaper
- Other: Firmware development, digital signal processing, problem-solving, self-directed learning

PROJECTS

Attila - Multiband Distortion

Developed "Attila", a 3-band distortion and bitcrushing plug-in for Windows, macOS, and Linux, made using the JUCE framework.

Technologies Used: C++, JUCE Framework, DSP concepts, Illustrator

GitHub: https://github.com/glafiro/trio

Space Chili - Delay and Chorus Plugin

Created "Space Chili", a free and open-source delay and chorus plugin available in VST3, AU, and LV2 formats.

Technologies Used: C++, JUCE Framework, DSP concepts, Illustrator, Blender

GitHub: https://github.com/glafiro/space-chili

Trio - Multiband Compressor

Developed "Trio", a free and open-source 3-band compressor plugin for Windows, macOS, and Linux.

Technologies Used: C++, JUCE Framework, DSP concepts, Illustrator

GitHub: https://github.com/glafiro/trio

Marching squares

A simple implementation of the Marching Squares algorithm. Mostly made to teach myself the raylib library and OpenGL.

Technologies Used: C++, raylib, openGL

GitHub: https://github.com/glafiro/marching-squares

Rubik - Rubik's cube visualizer

A Rubik's cube visualizer and simulator. **Technologies Used:** C++, raylib, openGL **GitHub:** https://github.com/glafiro/Rubik

SELECT PROFESSIONAL EXPERIENCE

Audio Producer, Mixing and Mastering Engineer, Sound Designer Freelance

MARCH 2006 - TODAY

- **Provided music production, mixing, and recording services for over 200 artists** across Italy under the moniker "David Hoover".
- Contributed to more than 100 albums, including major records; a partial discography is available here.
- Developed a strong reputation in the Italian music industry for delivering high-quality productions and innovative sound design.
- Utilized advanced audio production tools including Ableton Live, Steinberg Cubase and Reaper to create professional-grade audio.
- Managed all aspects of production, from initial recording sessions to final mastering, demonstrating comprehensive expertise in the audio production process.

Web Developer & Technical Support

Agriturismo Casentino, Bibbiena (AR)

MAY 2018 - MARCH 2023

- **Developed and maintained the company website** (agriturismocasentino.it, which has now changed ownership) using PHP, JavaScript, and WordPress.
- Created a custom hotel booking system to improve reservation efficiency, using Javascript,
 Node.js and React.
- Managed IT system, including network configurations and software installations, to provide technical support.
- **Designed graphics** and labels for events and consumer products using Affinity Designer, Adobe Illustrator and Canva.
- **Communicated with international clientele**, providing multilingual customer service and support.

Logistics Manager & Development Assistant

CEAM Control Equipment Srl, Empoli (Fl)

MAY 2021 - DECEMBER 2022

- Assisted in firmware development for temperature and humidity sensors, gaining experience in embedded systems programming.
- Worked with engineers to facilitate hardware-software integration.
- Planned and coordinated daily logistics and warehouse activities, ensuring timely flow of incoming and outgoing goods under tight deadlines.
- Communicated effectively with clients and suppliers, both national and international, via email and phone in Italian and English.

English Tutor

MAY 2015 - APRIL 2018

- **Helped over 50 students** in achieving various levels of proficiency (A2 to C1) in English.
- Prepared students for national and international exams and certifications like BEC.
- **Enhanced** organizational and communication skills through personalized lesson planning and in-person teaching.

EDUCATION

Self-taught programmer

- **C++ Mastery:** studied "*C++ Primer*" by Stanley B. Lippman, Josée Lajoie, and Barbara E. Moo and "*Effective Modern C++*" by Scott Meyers.
- Audio Signal Processing: learned from "Understanding Digital Signal Processing" by Richard G. Lyon, "Digital Signal Processing" on Coursera and "Designing Audio Effect Plugins in C++" by Will C. Pirkle.
- Computer Architecture: studied "Computer Systems: A Programmer's Perspective" by Randal E. Bryant & David R. O'Hallaron
- Computer Graphics: <u>learnopengl.com</u> by Joey de Vries.

Formal education

• Liceo Scientifico G. Giorgi, Milano - 2012

LANGUAGES

Italian: Native English: Proficient