

Jamie Malz

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Objective:

Electronic Production and Design student focused on audio technology and prototyping. Interested in AI-driven tools and machine learning applications in music. Experienced in building hardware/software systems for expressive musical control and signal processing.

Education:

Berklee College of Music - Boston, Massachusetts (Expected Graduation: May 2026)
Major: Electronic Music Production and Sound Design

Concordia University - Montreal, QC
Mechanical Engineering (2020-2021)

West Island College High School - DDO, QC
High School Diploma (2018)

Music & Performance:

- Guitarist and DJ with experience performing in live and corporate settings
- Taught guitar to students of varying skill levels
- Led and performed in bands across local venues

Work Experience:

GlobalVision - Kirkland, QC

Research and Development Specialist

May 2020-Aug 2020 | May 2021-Aug 2021

- Prototyped software-based tools for automated counting and detection of components
 - Conducted testing, debugging, and performance analysis to improve system reliability
 - Identified and documented bugs, working closely with engineers to improve functionality
 - Presented technical prototypes to clients and communicated system capabilities and improvements
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Projects:

Modular Guitar Control System (Capstone Project)

- Designed and built a wireless system using ESP32 microcontrollers to control guitar effects in real time
 - Implemented wireless communication (ESP-NOW) to transmit sensor data between devices
 - Converted sensor input into expression control signals for external audio processors
 - Integrated hardware and software to create a responsive performance system
 - Explored real-time control and expressive interaction in musical interfaces
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Skills:

Technical & Systems

- Audio signal flow and real-time control systems
- Hardware prototyping and sensor integration (ESP32, Arduino, etc)
- Wireless communication (ESP-NOW)
- Debugging and system testing

Audio & Music Technology

- Ableton Live, Logic Pro, Pro Tools, Reason, VCV Rack

- Sound design and synthesis
- Guitar performance and recording

Programming

- Arduino / C++
 - Max/MSP
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References:

Available upon request.