

AMARI STEWART

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EDUCATION

University of Miami, Frost School of Music & College of Engineering

B.S. in Music Engineering Technology, Minor in Computer Engineering

Coral Gables, FL | May 2025

Relevant Coursework: Digital Audio Theory / Audio Software Development I & II / Transducer Theory / Software Engineering & Architecture / Software Design & Verification / Data Structures / Algorithms / Processors: Hardware, Software, and Interfacing / Electrical Circuit Theory & Laboratory / Physical Computing

Extracurriculars: Audio Engineering Society (President)

PROJECTS

Vocal Denoiser Plugin: <https://github.com/amaristewart/Vocal-Denoiser-Plugin>

MATLAB, JUCE, C++

Nov 2024

- Combined convolutional neural networks and noise gates for effective speech detection and noise reduction.

Audio Equalizer Plugin: <https://github.com/amaristewart/Biquad-Plugin>

MATLAB, JUCE, C++

Sep 2024

- Developed an audio equalizer algorithm in MATLAB which was ported into a JUCE VST plugin.

WORK EXPERIENCE

Acoustics Systems Engineering Co-op

Bose Corporation | Bloomfield Hills, MI

July 2025 – Present

- Conducted research-based projects delivering value to global system engineering teams across multiple initiatives
- Developed and implemented code solutions in MATLAB for engineering applications
- Tested custom code on prototype hardware platforms and provided technical recommendations for improvements
- Collaborated closely with Automotive Audio Team to develop cutting-edge audio system technologies and solutions

Recording, Sound, and Video Engineer

Frost School of Music | Coral Gables, FL

Mar 2022 – Jun 2025

- Created high-quality recording, sound, and video production in the Frost School of Music's three recital halls.
- Utilized professional equipment and software to capture and enhance audio-visual content.
- Collaborated with musicians and directors to achieve optimal results to ensure a seamless production experience.

Lighting Designer

Frost School of Music | Coral Gables, FL

Jan 2023 – Jun 2025

- Designed and implemented innovative lighting schemes for live performances, creating visually captivating atmospheres.
- Collaborated with performers to understand their artistic vision and translate it into effective lighting designs.
- Demonstrated an eye for detail to understand the interplay between lighting, music, and audience engagement.

TECHNICAL SKILLS

Programming Languages: C/C++ / MATLAB / JavaScript / Python / Assembly

Frameworks/Technologies: JUCE / Git / Unix

Additional Skills: Digital Signal Processing / Object Oriented Programming