

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 / Physics

Extracurriculars: Audio Engineering Society (President)

WORK EXPERIENCE

Lead Software Developer / Audio Machine Learning Engineer

VocalUnity | Remote

Jan 2026 – Present

- Led development of a real-time timbre transfer audio plugin/application for music production and live performance
- Designed, prototyped, and implemented machine learning-based DSP algorithms for voice timbre transfer
- Developed audio ML pipelines using PyTorch, integrating signal processing principles with deep learning models
- Conducted literature review and technical evaluation of voice-to-voice and timbre transfer research

Acoustics Systems Engineering Co-op

Bose Corporation | Bloomfield Hills, MI

July 2025 – Dec 2025

- Developed automated MATLAB algorithms for in-vehicle acoustic data acquisition and digital signal processing workflows
- Built and maintained test automation frameworks for prototype acoustic system validation and performance analysis
- Troubleshoot hardware, software, and connectivity issues across automated measurement and data acquisition systems
- Collaborated with Automotive Audio Team to translate technical requirements into scalable automation solutions for audio system development

Recording, Sound, and Video Engineer

Frost School of Music | Coral Gables, FL

Mar 2022 – Jun 2025

- Connected, tested, and troubleshoot audio and video systems for concerts and events
- Patched and routed signals across mixing consoles, video switchers, and playback systems
- Operated Yamaha QL1 and QL5 digital mixing consoles to mix and monitor live audio for concerts, recitals, and events
- Supported live video systems using Blackmagic ATEM and TriCaster platforms
- Set up and broke down microphones, stands, cabling, audio, and video equipment
- Collaborated with lighting, audio, video, and production teams to ensure smooth show execution

Lighting Engineer

Frost School of Music | Coral Gables, FL

Jan 2023 – Jun 2025

- Executed load-in, setup, and strike of lighting and stage equipment for live events
- Programmed and operated Chamsys MagicQ lighting control board for live performances
- Managed cable runs and equipment placement to maintain safe, organized workspaces
- Executed and implemented stage plots, coordinating lighting, audio, and stage layouts during load-in
- Coordinated with visiting production crews to meet technical and scheduling requirements

TECHNICAL SKILLS

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

Frameworks/Technologies: PyTorch / JUCE / Git / SVN / Unix

Additional Skills: Digital Signal Processing / Algorithm Development / Machine Learning / Real-Time Audio Systems