

Leadership Proposal – Practitioner Article on Podcasting as an Inclusive STEM Pedagogy

Title: *Every Brain Has a Voice: Podcasting as an Inclusive STEM Practice for Diverse Learners*

Option Selected & Rationale: I selected the practitioner-article option because podcasting has emerged as a powerful, research-supported pedagogical practice in my work as a Communications Specialist in the aerospace industry and through my STEM advocacy. In a PowerPoint presentation I developed separately on this, my presentation on neurodiversity and podcasting demonstrates how audio production supports expressive language, executive functioning, digital literacy, and identity development—skills emphasized throughout my NASA Endeavor coursework. Publishing an article allows me to translate these insights into a practical, classroom-ready strategy for STEM educators.

Audience: This article is intended for K–12 STEM teachers, instructional coaches, and special educators who work with diverse and neurodivergent learners. These educators typically serve classrooms ranging from 20–150 students across science, technology, engineering, the arts, and mathematics.

STEM Integration: The article will demonstrate how podcasting aligns with STEM by incorporating computational thinking (sequencing, iteration), engineering design (drafting, testing, revising audio products), and technology integration (recording tools, editing software). It will also connect to Endeavor coursework by showing how students can create STEM-themed podcast episodes using NASA datasets, mission updates, or engineering challenges.

Expected Outcomes & Follow-Up: I hope educators will gain confidence using podcasting as an inclusive STEM strategy that supports diverse processing styles and student agency. I will follow up by offering optional virtual office hours, sharing templates and exemplars, and inviting teachers to contribute student podcast samples to a collaborative digital gallery.