

Everett M. Carpenter

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EDUCATION

- **Rensselaer Polytechnic Institute (RPI)** Troy, NY
[In progress] Bachelor of Music - Focus in Sound Technology Fall 2024 - Fall 2026
Courses: Music Performance Systems, Sonification, Sound Design, Spatial Audio, Ethnomusicology, Sound Studies, Differential Equations, Pure and Applied Mathematics
- **College of Saint Rose (SR)** Albany, NY
[Completed in part] Bachelor of Music Industry Fall 2023 - Spring 2024
Courses: Studio Sound Recording, Music Performance, Composition, Music Business, Music Theory and Ear Training
- **St. Philip's College** San Antonio, TX
Dual Credit Courses Fall 2021 - Spring 2023
Courses: British Literature, College Writing, English

SKILLS SUMMARY

- **Soft Skills:** Document Preparation, Event and Time Management, Efficient Multitasking, Data Analysis
- **Languages:** C, C++, TeX, LaTeX, ChuckK, MaxMSP, PureData, Unity, Unreal Engine
- **Platforms:** Linux, Windows, Raspberry Pi, Arduino
- **Applications:** Microsoft Suite, Adobe Suite, Avid Technologies

EXPERIENCE

- **Albany Symphony Orchestra** Part-time
Student Intern May 2025 - August 2025
 - **Concert Production:** Frequently worked backstage to support Symphony musicians and ensure show ran as desired.
 - **Water Music Tour Support:** Worked a five day tour from July 2nd to 5th. This entailed stage support, customer services, as well as transport of concert supplies across upstate New York. More here.
 - **Financial Organization:** Organized all documents required for complete documentation of employee expenses for aforementioned tour.
- **United States District Court, NYND, Albany** Part-time
Office Clerk May 2025 - August 2025
 - **Data Analysis of Court Service Charges:** Analyzed financial charges received by Court for general services over multiple fiscal years, assisted the refunding of charges.
 - **Court Property Management:** Created an inventory of all items stored in the court, ensured their timelines for disposal.
 - **Filing Management:** Frequently worked with the Court's case management and filing system, CM/ECF.
- **United States District Court, TXWD, San Antonio** Full-time
District Court Clerk May 2024 - August 2024
 - **Jury Mailing and Organization:** Designed, printed, and mailed hundreds of postcards for notification of jury selection.
 - **Jury Postcard Workshop:** In a conference with other jury clerks for the Texas Western District, I presented the newly designed jury postcard and explained how other courts can easily implement it.
 - **Juror Information Handling:** Entered juror information into local databases for analysis.
- **United States District Court, TXWD, San Antonio** Full-time
Probation Office Clerk May 2023 - August 2023

PROJECTS

- **Chumbi, Accesible Ambisonic Audio in the ChuckK Programmign Language:** (Actively Maintained since May 2025)
A collection of C++ libraries for the ChuckK programming language which were designed with the goal of making spatial audio accessible for composers, musicians and hobbyists.
- **Contributions to ChuckK:** Designed and programmed the algorithm for calculation of spherical harmonics in the ChuckK programming language. Added to ChuckK version 1.5.5.8
- **Sonic, Interative, Tactile Environments (SITES):** (Actively Maintained since Fall 2025) Created by myself and a team of two PhD students at RPI, Joey Latka and Anke Sun. An interactive, immersive collection of environments which embody reality, perceptual space and other-worldly spaces. Uses body movement to control audio and visual environments.

SELECTED WRITINGS AND PRESENTATIONS

- Poster: An Object-Based Paradigm for Higher-Order Ambisonics in ChuckK
- Presentation: The Psychoacoustics of Spatial Sound and Sound Localization
- Paper: Chumbi- A Toolkit For Accessing Ambisonics at Various Levels in ChuckK
- Paper: An Object-Based Paradigm for Higher-Order Ambisonics in The ChuckK Programming Language

HONORS AND AWARDS

- Awarded the Michael D. Normandin Innovative Computing Technology Award for outstanding use of computing technology and analog systems as creative tools for music composition.
- President's List at the College of Saint Rose (Spring 2025)
- Nominated for best original music in Bexar County's BEXARFest film festival. (August 2021)