Derek Wingard

DSP Engineer
Tech Innovators Inc.
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Dear Tech Innovators Inc. Hiring Team,

I am a computational physicist (9yr Python/Matlab, 3yr C++) and EDM producer (https://soundcloud.com/phd_dubs). These two passions brought me to audio DSP. I have been building audio effect plugins using the VST3 SDK in hopes of selling them in an online storefront, and I have developed a **strong knowledge and workflow for building software for DAW's using modern C++ (17+)**. I have a saturator I am currently working on and I can share a drive link in this email. There is a simple compressor on my github: (https://github.com/DOWingard/DSP-Compressor-with-optional-smoothing-and-adaptive-release-in-Cpp-).

I also **built an improved VST3 Project Generator** with added useful libraries and functionality that should make it much easier to get a more complex plugin working quickly and **help newer programmers learn**: (https://github.com/Void-Audio/VOID-VST3-Project-Generator).

As a physicist, I love difficult, seemingly impossible problems. I have **multiple first author publications** in the **theoretical nuclear physics journal** *Few Body Systems*. At the Nevada National Security Site, I worked with a **diverse interdisciplinary team** and contributed to a **large collaborative project**, where **effective communication** was crucial. This was even more pertinent for my **presentations to senior leadership**, many of which are in non-technical backgrounds.

I also love going to shows in LA and interacting with various artists I meet there. I am more than willing to represent Tech Innovators Inc. in that capacity and forge new business connections if that is something desired.

More personally, I genuinely love writing C++ code for audio software and the opportunity to do this as a remote role would be a dream job for me. I would love supporting Tech Innovators Inc. by developing music production tools that continue to push the edge of what is possible for audio DSP software. I appreciate the time taken to consider my application.

Best,

Derek Wingard