

Journal 0

David Cha

August 2019

1 Introduction

While there has been a large push in America for STEM education, music has been left behind in this push, leading to a public less musically literate than in past times. Specialized Python libraries and Arduino serial packages can help convert musical data for robots to interpret and perform for an audience. Such technology would help foster a new-found interest in music for the general public and help bring back this all-important skill.

Having done no work on our project over the summer, both my partner and I are ready to start work on our project. In terms of my part of the project, my main obstacle is that I will need to constantly experiment and test with my partner to make sure that his robot is working with my code and vice versa. This will require much planning beforehand and will also require us to manage our time well. We will know if our project is on the right track when we are successfully able to play a single note on our robot; this is our first marker of success. This will mean that apart from robot parts, our project will need an instrument to be played on. My partner and I have determined a xylophone-like instrument would be ideal.