

# Robot Prototype «Bothofen»

Bothofen is a physical instance which helps you with your next step in your musical career. No matter if it's evolving new learned skills, playing wonderful pieces, or even composing your own songs, Bothofen supports you achieving your goals with his unique helping abilities.

## Functionality:

- Recording: Each session gets recorded and saved locally. This yields the opportunity to review, annotate and share your recordings. One can benefit from this function even more through the "Git-hub"-style way of saving and editing pieces. A recording can be the whole piece or just a part one wants to work on more intensively, whereas the favored ones can be marked as such.
- Face-to-Face session: One can use Bothofen's inbuild Skype functionality to get connected. Like this, a private lesson can happen independent from where your teacher is. It could also be used for group session or even just for small Q&A's. Bothofen transcribes the sound you are producing and transmits it to your peer. This makes it easy to analyze the work more precisely and easily together.
- Analysis tool: Each part of the song can be analyzed independently. From tempo, to rhythm, to difference in pitch, the toolbox contains a variety of sophisticated tools to measure the different characteristics. This can be done live or afterwards with the saved recordings. One can also use these tools to train a piece or part of a piece in a predefined way, whereas feedback is given real-time through visual signals namely colors.
- Diary: There is the possibility to have a diary with all the recordings, annotations, notes and accomplishments. Goals can be set at every new session, every new song or overall over a predefined period of time. Depending on the goal, Bothofen automatically calculates it's progress (mostly available with technical skills). The diary and goals help having a structured learning process. The diary can be shared fully or partially with others, which could help teachers understanding the musicians point of view.
- Reward System: Bothofen has a locker for up to two phones. While exercising the phones can reload its batteries. A reward function is available to only load the phone when being productive (matter of definition), this is optionally.

## Features

- Microphone on the wire to get good sound quality
- Intuitive Voice control
- Handy locker
- Import/ export
- Aux input for keyboard
- Metronome