

Master Project Mobile Computing

Project – Data Sheet –

A

1. Student

Forename Surname	Denis Sivak
Student Number	S1710455015

2. Topic

Working Title	Detecting fundamental frequency of drums
Short Description and/or Remarks	Tuning is the first and most important step when it comes to playing and recording instruments. Due to the complexity of tuning drums by ear many years of training and experience are needed to fulfill this task. This thesis deals with this problem and elaborates a computer assisted way for tuning drums. Therefore different pitch detection algorithms are implemented and tested regarding their ability and precision for detecting the fundamental frequency of drums. Furthermore an app is designed which implements the best algorithm for this use case to assist musicians in tuning their drums.

3. Advisor(s)

Primary	Name	FH-Prof. DI Dr. Gerald Ostermayer	%	Advisor Signature
Secondary	Name		%	Advisor Signature
Tertiary	Name		%	Advisor Signature

I hereby confirm the correctness of the provided data

Linz, 13.03.2018

Place, Date

Denis Sivak

Student Signature

☐ approved

☐ update

☐ rejected

☐ 1. Semester

☐ 2. Semester

☐ 3. Semester

Place, Date

Project Coordinator