$\begin{array}{c} {\rm Final\ Project\ Report} \\ {\bf Non\text{-}Intrusive\ load\ monitoring} \end{array}$

Supervisor: Yuval Beck

Joel Ejenchtal & Thomas Glezer

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1 TODO

- json reformat
- ml model for each state, run a fit to train the models, when analysis is being done we need to first run a general fit, trying to identify state_0 if no match then try to identify state_1 and so on.
- Run a weighted average to compute the confidence level in identifying.

2 Abstract

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3 Motivation

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4 Introduction

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5 Terminologies

For the sake of organization and a clear non conflicting terms while in derivation and analysis for the reader, as some the presented terms may uphold differently in different contexts, we are listing below some of those which we would like to make standard for the comprehension of this particular project.

- State: A sequence in time, where a specific operation whithin a mode takes place.
- Mode: A mode is a sequence of states for a machine operation.
- Operation: A set of modes in a very specific arrangment of time samples
- Machine: