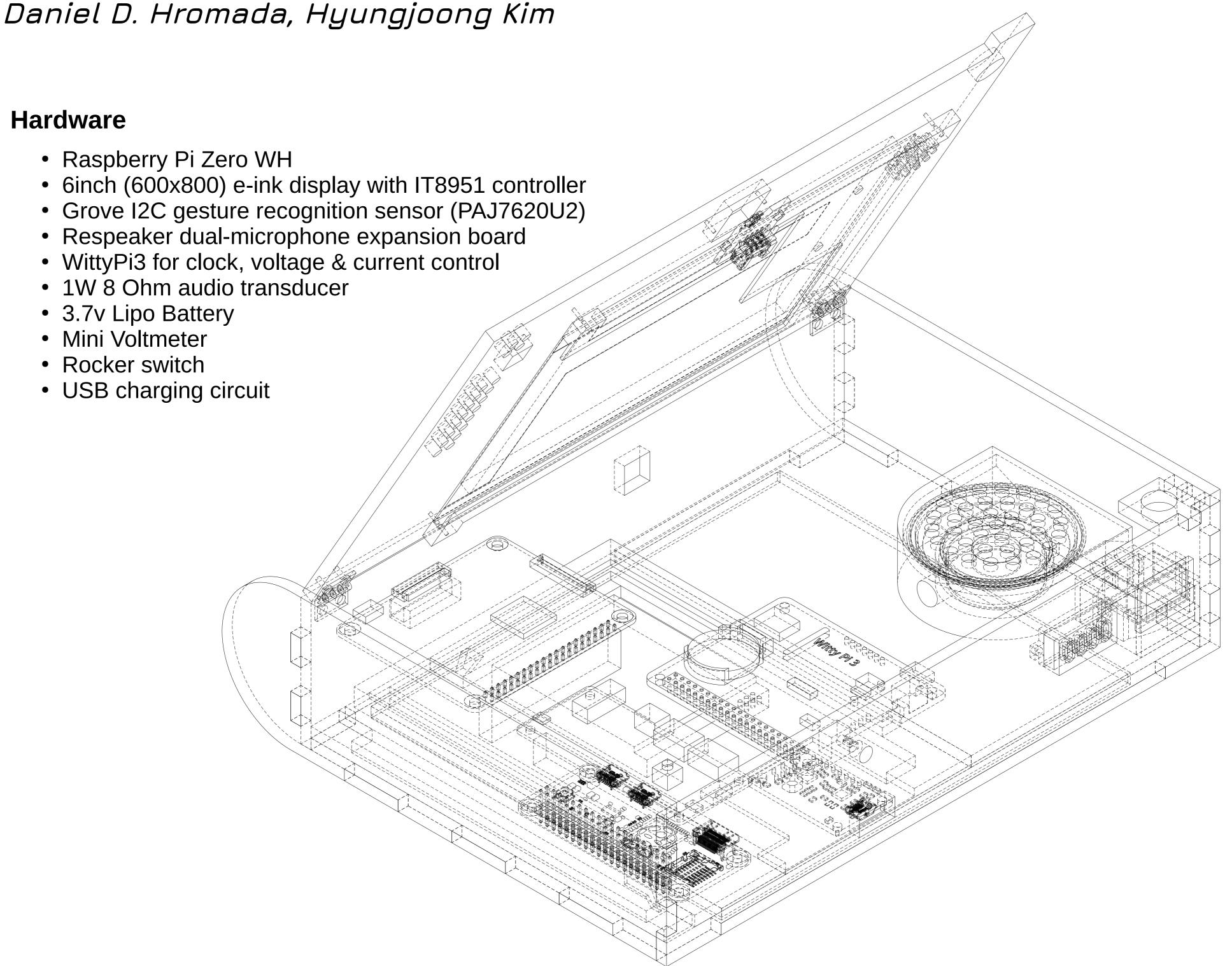


# Personal Primer Prototype 1:

Invitation to Make Your Own Embooked Speech-Based Educational Artifact



#### **Properties**

#### Speech-based

- Deepspeech model and our own exercise-specific language models (scorers) for speech recognition.
- ECAPA-TDNN embeddings for speaker verification and identification.
- Audio-text support: from syllabic level of language acquisition through words and simple sentences to fairy-tales and fables.

#### **Embooked**

- Standardized A5 format. Fit to school bags and book shelves.
- Physical content protection
- E-ink Display

## **Voluminous**

- Effective in energy transformation and heat issues
- Extra space for school tools (e.g. pen, paper, etc).

#### **SDG-compliant**

- Sustainable Development Goal
- Energy efficient microcontroller (Pi Zero)
- Solar Panel Chargeable
- Outdoor education (E-ink)

## Circadian

- Preventing children from overuse
- Device with rhythms

## **Edge-computing**

- Inferencing and Training on the edge
- No big tech cloud
- Children Data Protection

## Modular

- Flexible in assembly and disassembly
- Easily interchangeable