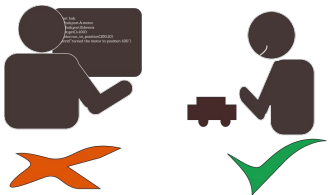


**Motivation** - how to introduce robotics to a classroom with limited access to computers and WiFi

## Big Idea

Smart Motors are pre-programmed trainable motors that can be trained to respond to different sensor inputs.



lowers the barriers of entry to robotics for teachers and young children.

## Prototyping and testing



projects with various complexities

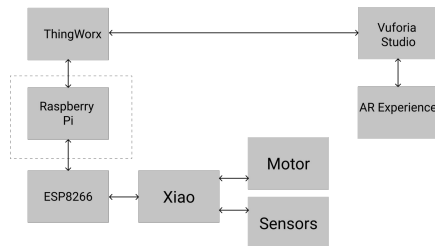
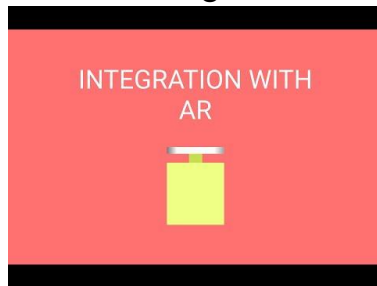
low cost, low tech  
easy to get started  
lots of potential in storytelling with integration of other sensors



Training can be a black box  
Don't know how it works  
Too many wires and unused sensors

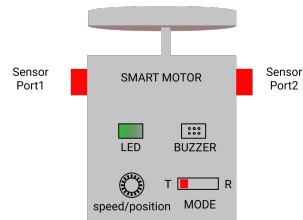


## AR Integration



Features in development:  
Select and remove a data point from training set  
Load a Smart Motor with a trained model

## Future Work



Cheap

Expandable

Cleaner packaging

Layered complexity built into it to support learners in different stages.

Different machine learning algorithms built into one system