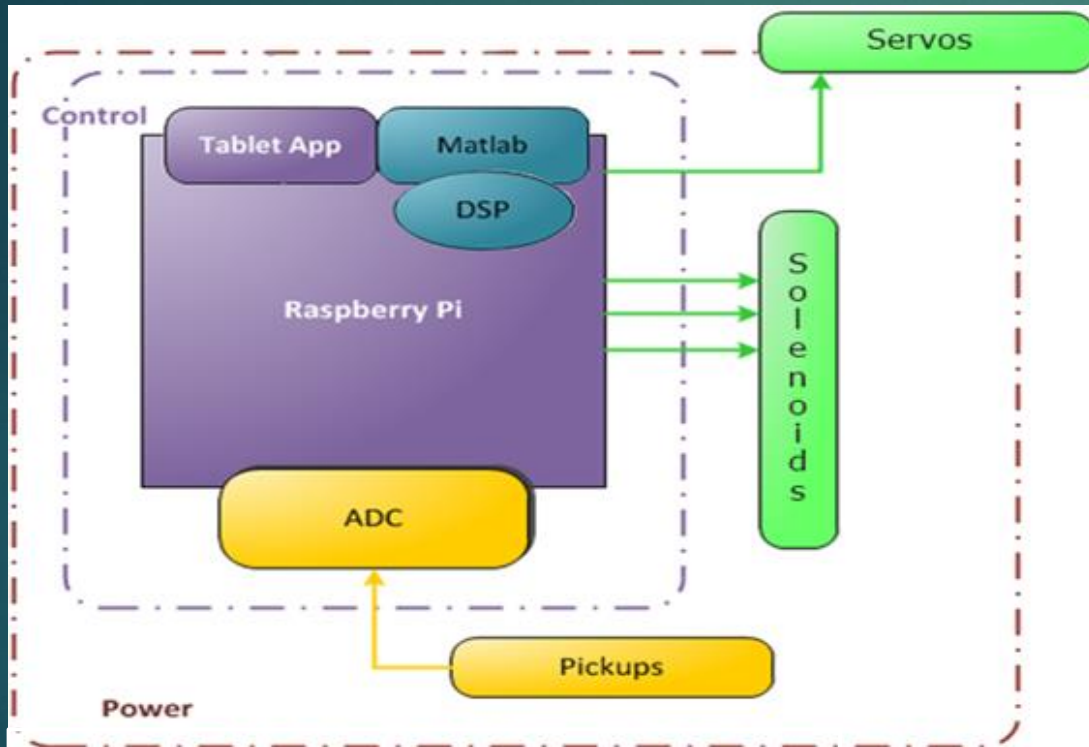


Fender Bender-Team 17

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Project Goals and Deliverables:

The goal of this project is to create a self-playing and self-tuning guitar driven by an application that takes input from MIDI files and displays the signal outputs of the guitar in an educational manner.

This project provides a set of servos and solenoids that act as the tuning and note playing modules, respectively, a Raspberry Pi microprocessor with a coded application to drive the physical modules, and a conversion method to input MIDI files at the user's discretion.

Subsystems:

Power

Control/App Development

Signal Processing

Tuning/Feedback

Hardware