

## Embedded Microcontroller Design Project

### Smart Guitar V2

#### Mission Statement

The mission was to create a functional prototype of a high end guitar that incorporates microprocessors and touchscreen technology to enhance the user experience for musicians of all skill levels.

#### Synopsis

The Smart Guitar V2 team initially aimed to recreate the original smart guitar project with their own built in touchscreen computer. They researched the cheapest way to obtain their goal by finding the cheapest parts needed. After obtaining the necessary components, they needed to find out how to make a program that can replicate the iOS app featured on last year's project. Once the program had easily achieved what they had hoped, they then added several effects to manipulate the sound of the guitar. They proceeded to package the wiring connections and the components into the body and secured everything with two 3D printed shields.



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