# **Objectives**

**Design and manufacture** an electronics kit to teach middle schoolers how to solder & program

Complete a **fully funded** Kickstarter campaign through successful marketing

### **Specifications**

- Hand solderable with through-hole components to teach soldering
- Compatible with Arduino to teach programming to kids
- Design instructions and kit for that was understandable enough to ship around to world to funders

#### **Proof of Concept Approach** (Electronic) Split into 3 teams after working on the proof of concept Mechanical Electronics Software Iterated testing 3 times until we arrived at the final **Testing** product Completed assembly instructions in the testing phase so others are Mass Manufacturing able to re-produce and use our kits

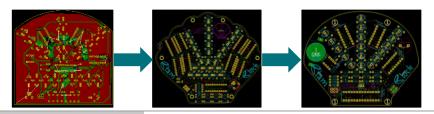
#### Instructables:

https://www.instructables.com/id/ClamClock-a-Binary-Timekeeper/

## **Proof of Concept**

Meticulously **designed** and **tested** each version PCB, improving it each time

Collaborated with the programming and mechanical team to design the clock with the correct physical dimensions and system architecture



### Results

Fully **funded** Kickstarter, reaching 51 people and \$3,108 in funding

https://www.kickstarter.com/projects/1773610279/clamclock-a-diy-binary-timekeeper
Completely marketed product including photos and promotional video



