E.D.I.T.H

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Revolutionary Ideas

1964

1988
Revolutionary Idea

2019
BUT WAIT

THERE'S MORE
Revolutionary Idea

2019
Today
Block Diagram
Examples
Examples
Audio

- Two tones
  - high tone controls left double click
  - Low controls right click

- FFT - frequency bands
```javascript
Mouse.click();

Mouse.set_buttons(1, 0, 0);  // hold left button
Mouse.move(-30, 10);        // move the mouse while holding
delay(500);
Mouse.set_buttons(0, 0, 0);  // release button after move
```

Teensy
Milestones

Week 1:
❖ Gather/Order all required components
❖ Finish Block Diagram for high level overview
❖ Finish project proposal and prepare for the project presentation

Week 2:
❖ UART connection between Teensy and FPGA
❖ Teensy feeding mouse movement to laptop
❖ FPGA can recognize high and low tones

Week 3:
❖ Integrate camera to recognize different LED colors
❖ High and Low tones correlate to FPGA actions

Week 4:
❖ Translate gloves positions into XY coordinates
❖ FFT programmable mode
❖ Fool-proof audio and visual systems

Week 5:
❖ Integrate audio and visual components

Week 6
❖ Demo project on Bloons Tower Defense