
INTERACTIVE GAME FOR CHILD

P09003

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Electrical Engineer

Electrical Engineer

Electrical Engineer

Industrial Design

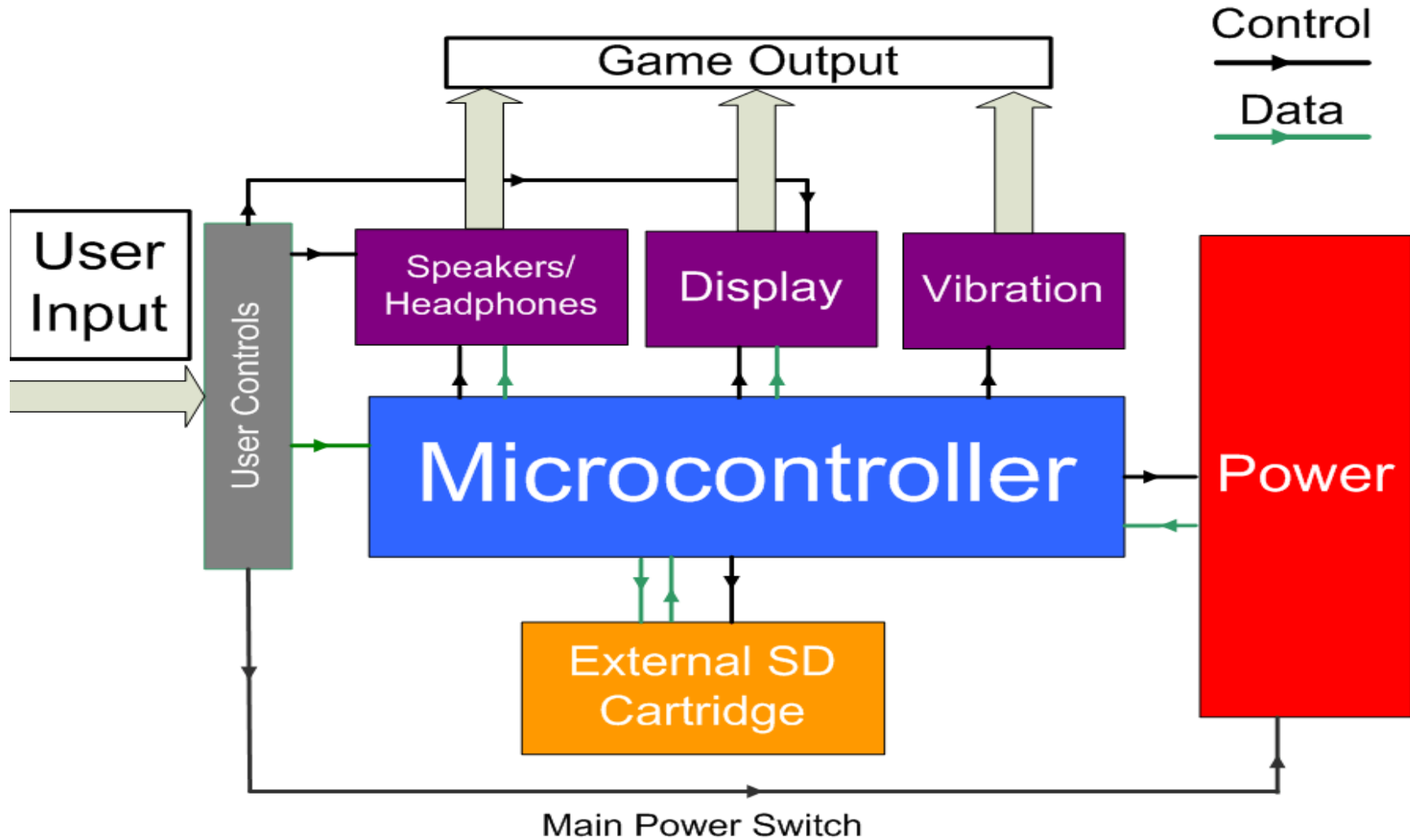
PROJECT DESCRIPTION



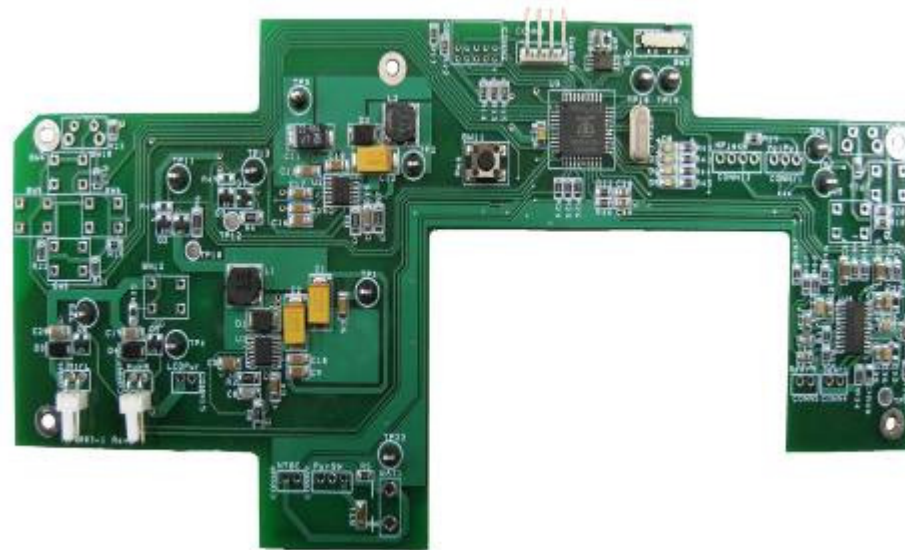
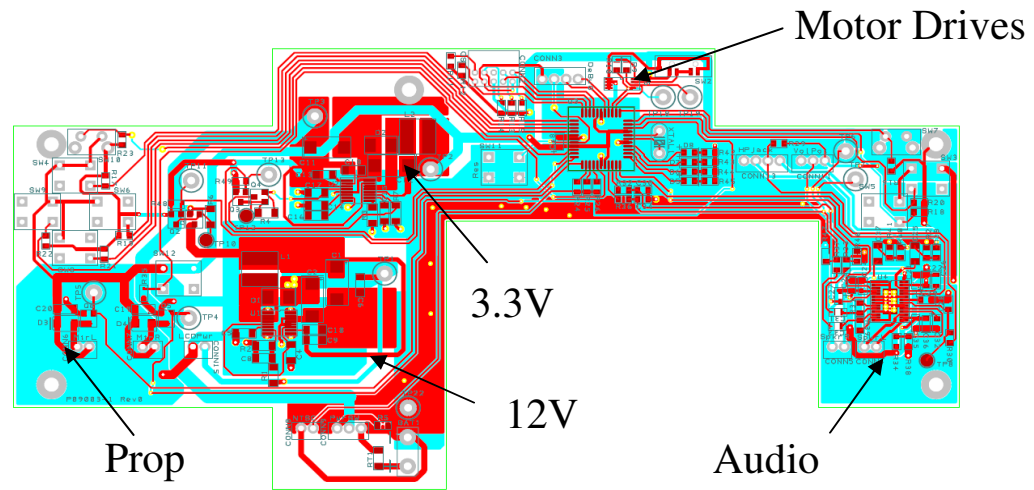
Key Level Customer Needs/Engineering Specification

- Custom Product
 - Dimensions < 9.8in X 5.9in X 3in
 - Weight < 2 lbs.
 - Battery Life ~ Approx 3 – 4 hrs.
 - Audio
 - Stereo Speakers
 - Headphone Jack
 - Game Mechanics
 - Tactile Feedback
 - Game Cartridges
 - Game Graphics
 - High Contrast
 - Graphic Size > 1 Sq. In.
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SYSTEM ARCHITECTURE



HARDWARE – PCB



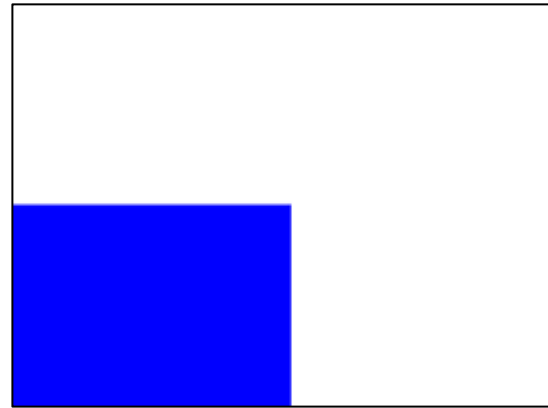
SOFTWARE

- API (Application Programming Interface)
 - Video
 - Vibration
 - Buttons
 - Audio

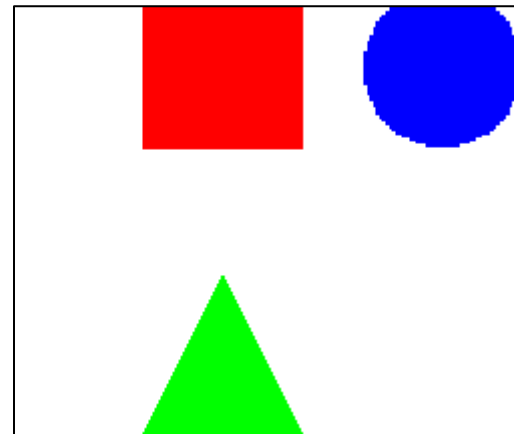
 - Firmware
 - Power
 - SD Interface
-

GAMES

- Simon

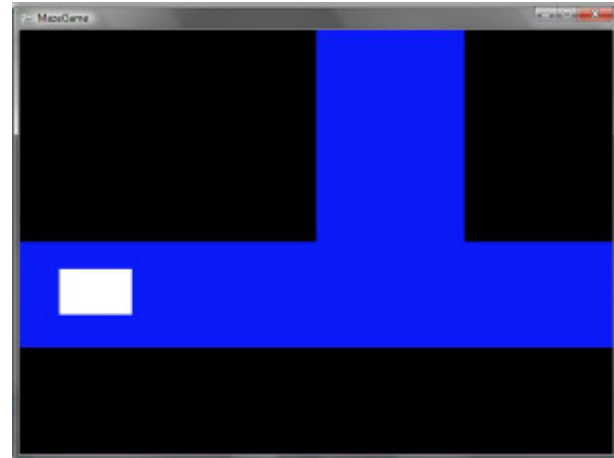


- Avoidance



GAMES

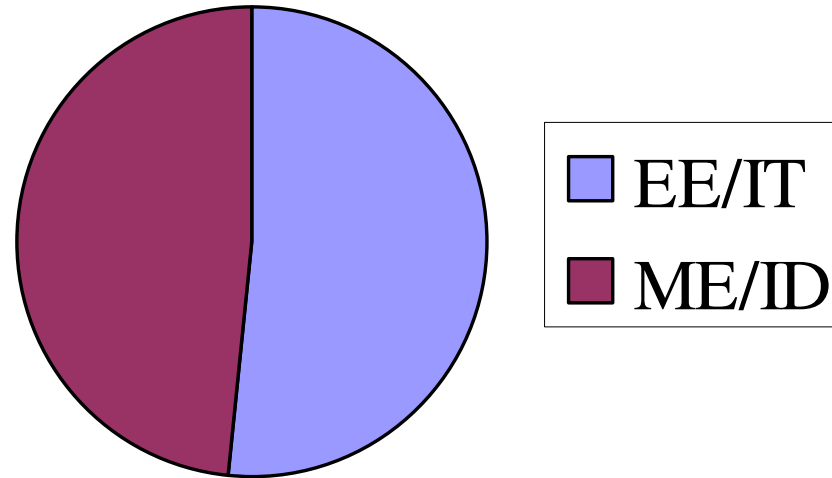
- Maze



CASING



EXPENDITURES



- EE/IT: \$ 2,121.66
 - ME/ID: \$ 1,978.55
 - **Total Spent: \$ 4,100.21**
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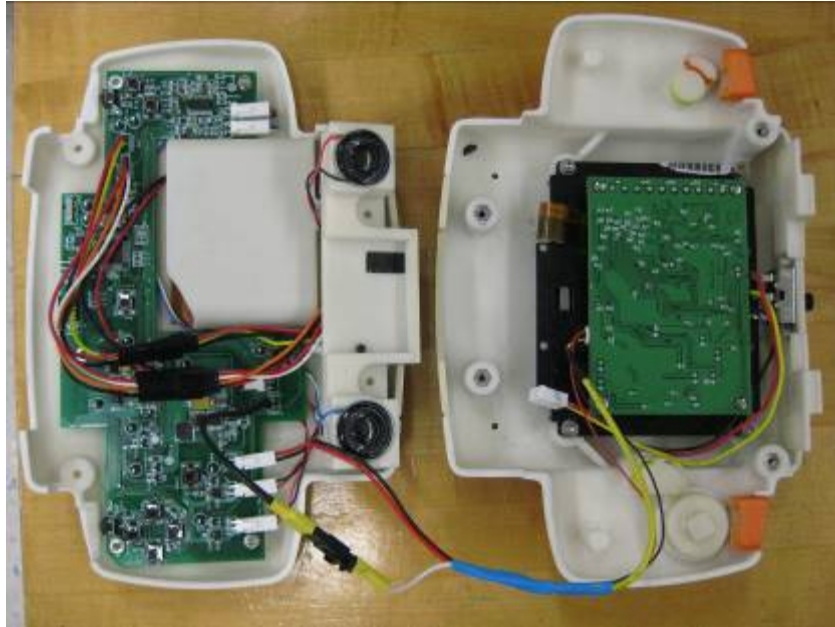
SHORTCOMINGS

- Weight
 - Over 2 lbs
 - Battery Life
 - Now is 1 ½ hrs
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RESULTS

- Meets All Customer Needs Except Battery Life and Weight





QUESTIONS?

