GLYCH

THE FREQZ ● ECE3710

HARDWARE

Processor → Memory

Memory → VGA

Memory → NES Controller

Memory → Speakers
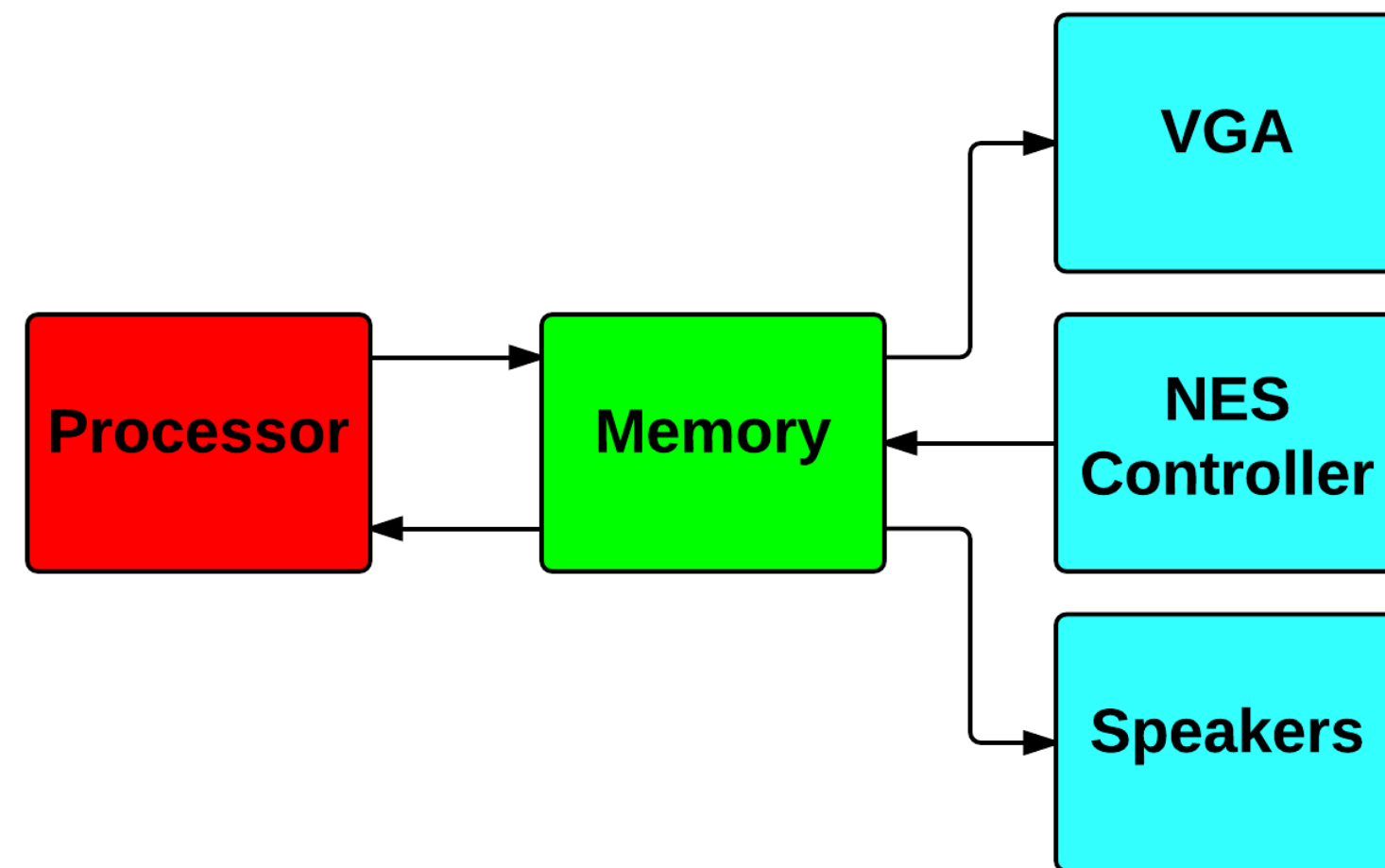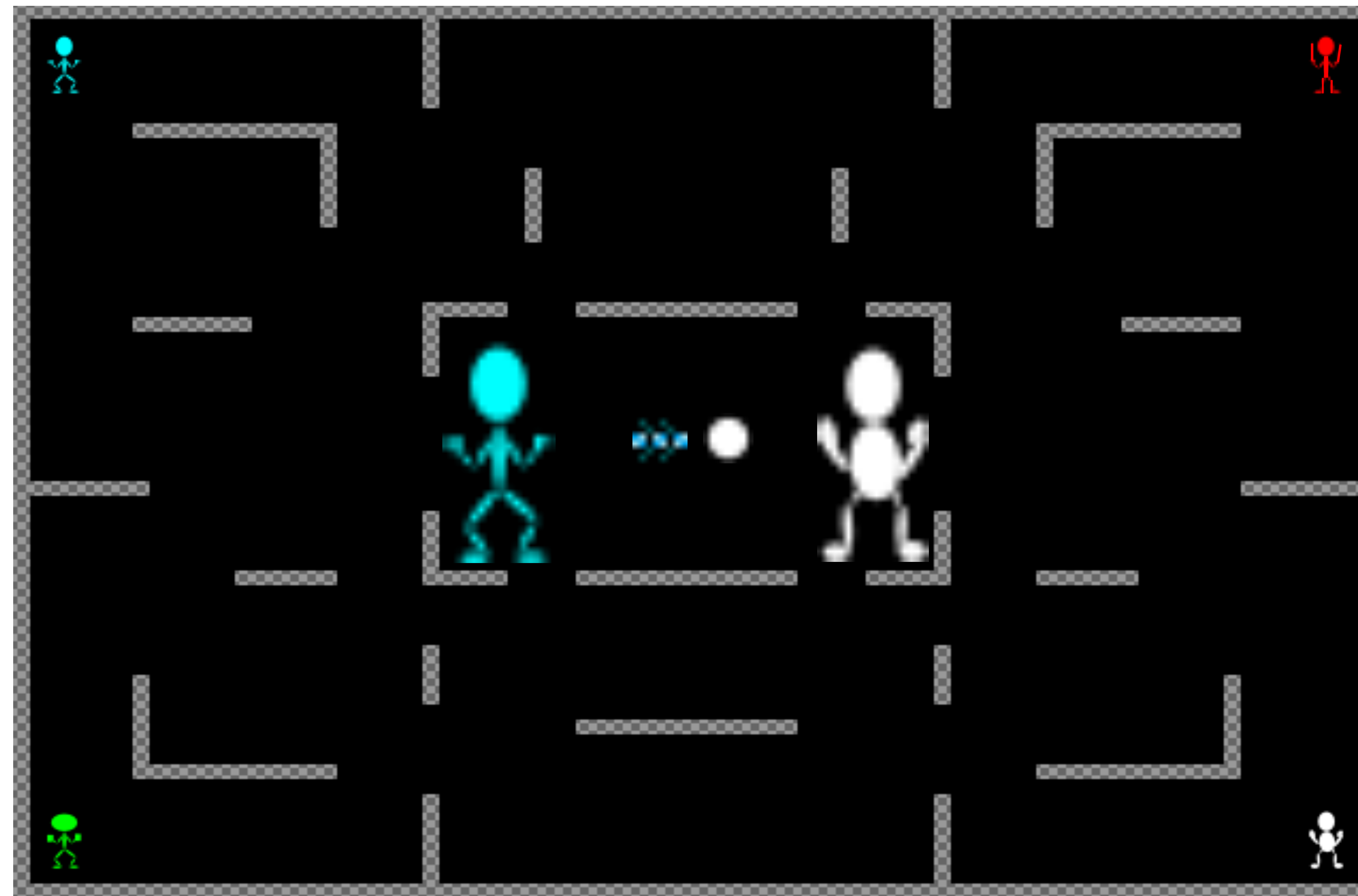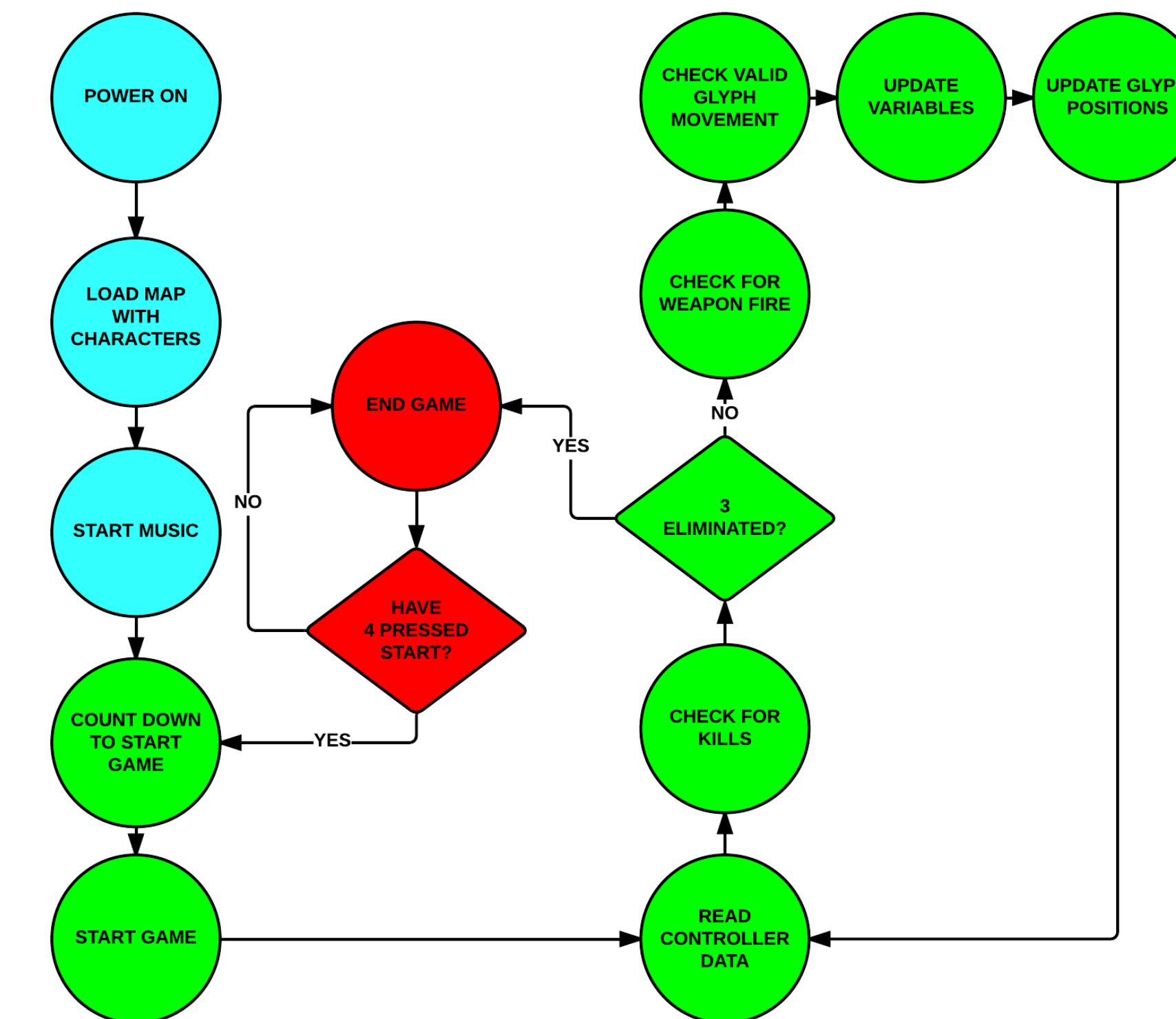
FEATURES

Single-Cycle 50 MHz Processor

32-Bits with 32 Registers

8x8 pix. Glyph-Based VGA Display

55 8-Bit Color Glyphs

Stereo Sound Tone Generator

NES Controller Interface

Memory Mapped I/O

Glychy Easter Eggs Included

APPLICATION

POWER ON

LOAD MAP WITH CHARACTERS

START MUSIC

HAVE 4 PRESSED START? — NO / YES

COUNT DOWN TO START GAME

START GAME

READ CONTROLLER DATA

CHECK FOR KILLS

3 ELIMINATED? — NO / YES

END GAME

CHECK FOR WEAPON FIRE

CHECK VALID GLYPH MOVEMENT

UPDATE VARIABLES

UPDATE GLYPH POSITIONS

GAME PLAY

4 players square off in a battle to the GLYCH

Each player is armed with a unique energy

blast that causes the enemy to glych out.

The last man standing wins!

Travis Gray

Matthew Humphries

Steve Brown

Mark Stacey