

EGR 315 Karaoke Machine

Students

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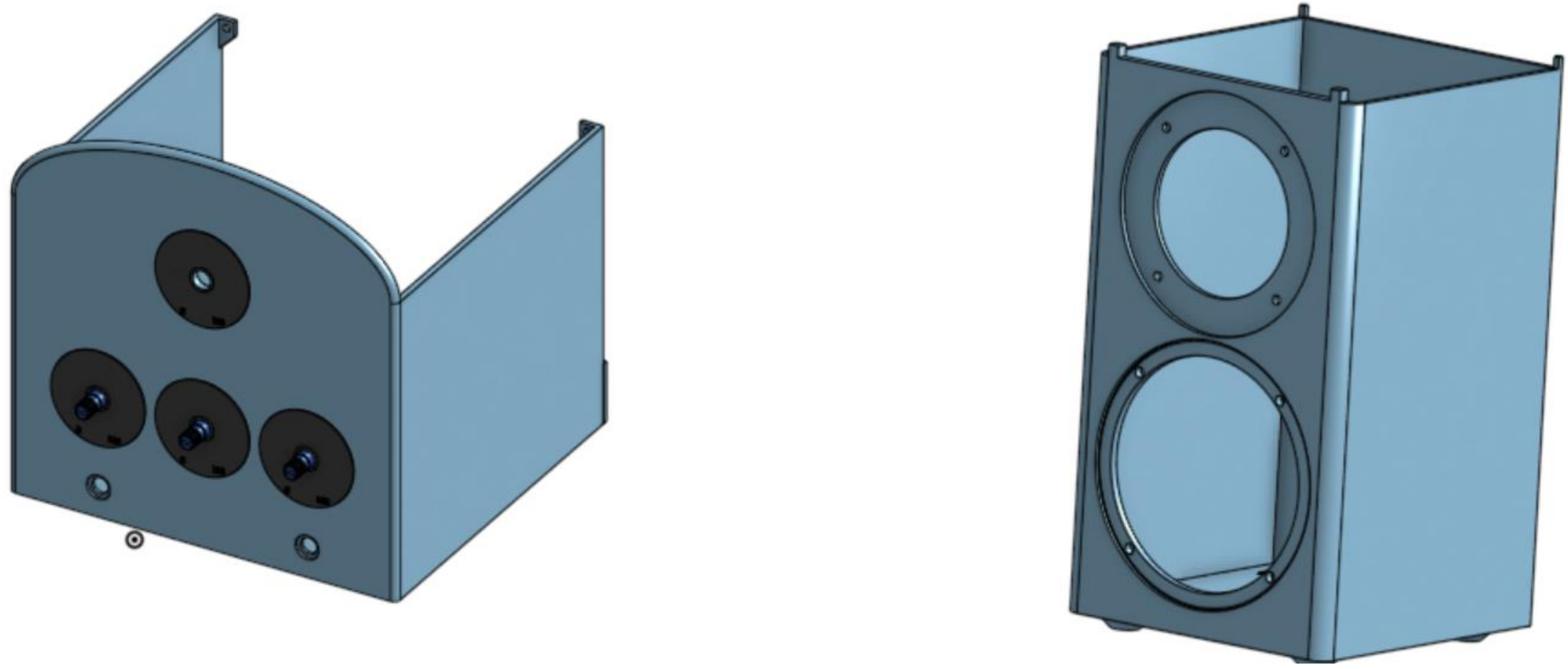
Professors

Dr. Brakora
Dr. Rahman

Project Overview

This Karaoke machine is powered Via wall outlet converted to 24v dc allowing two microphone inputs and a computer input to play music and sing along outputting to 4 speakers.

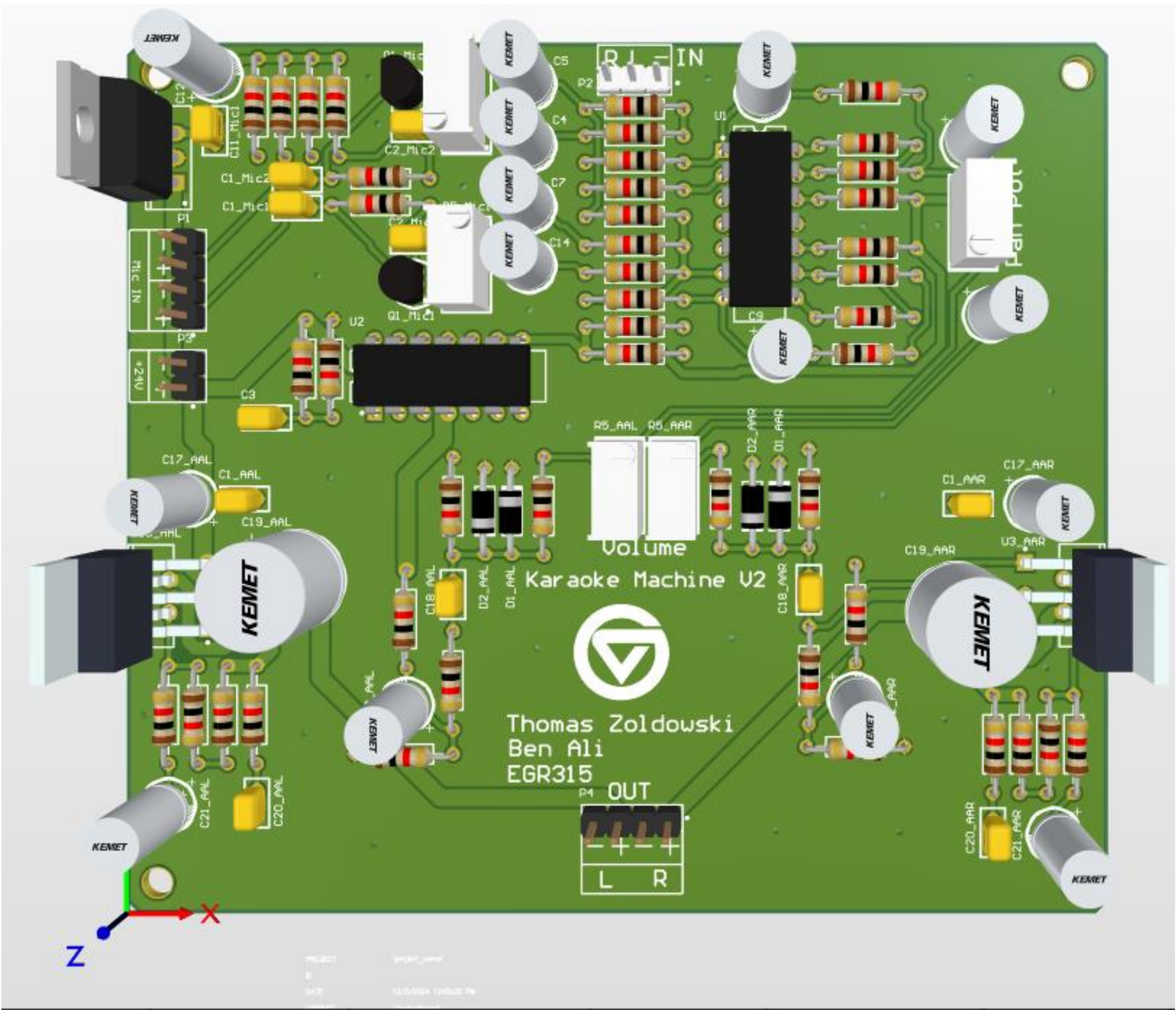
Enclosure Design



Features

- 2 mics
- 4 Speakers
- 2 Loudspeaker enclosures
- Ability to shift audio to each loudspeaker
- Master Volume controls as well as mic volume controls

PCB Layout



Highlights

- High power audio amplifiers allow louder more defined audio
- High-power speakers allow much greater volume
- LM1875 20W Audio Power Amp
- 24V 4A wall wart power supply
- Midrange speakers for 55Hz-5000Hz
- Tweeter speakers for 2500Hz to 20000Hz

