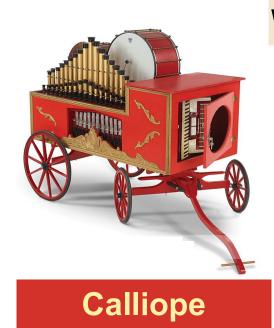


Jasmine Gay, Anjani Good, Isaac Guettler, Christian Morales, Taylor Shelby

Background



- Mechanical elements in conjunction with electrical elements
- Music roll
- Interactive



Music roll Simple, but not variable



- Music roll
- Assortment of
- instruments
- Autonomous



Wintergatan's Marble Machine

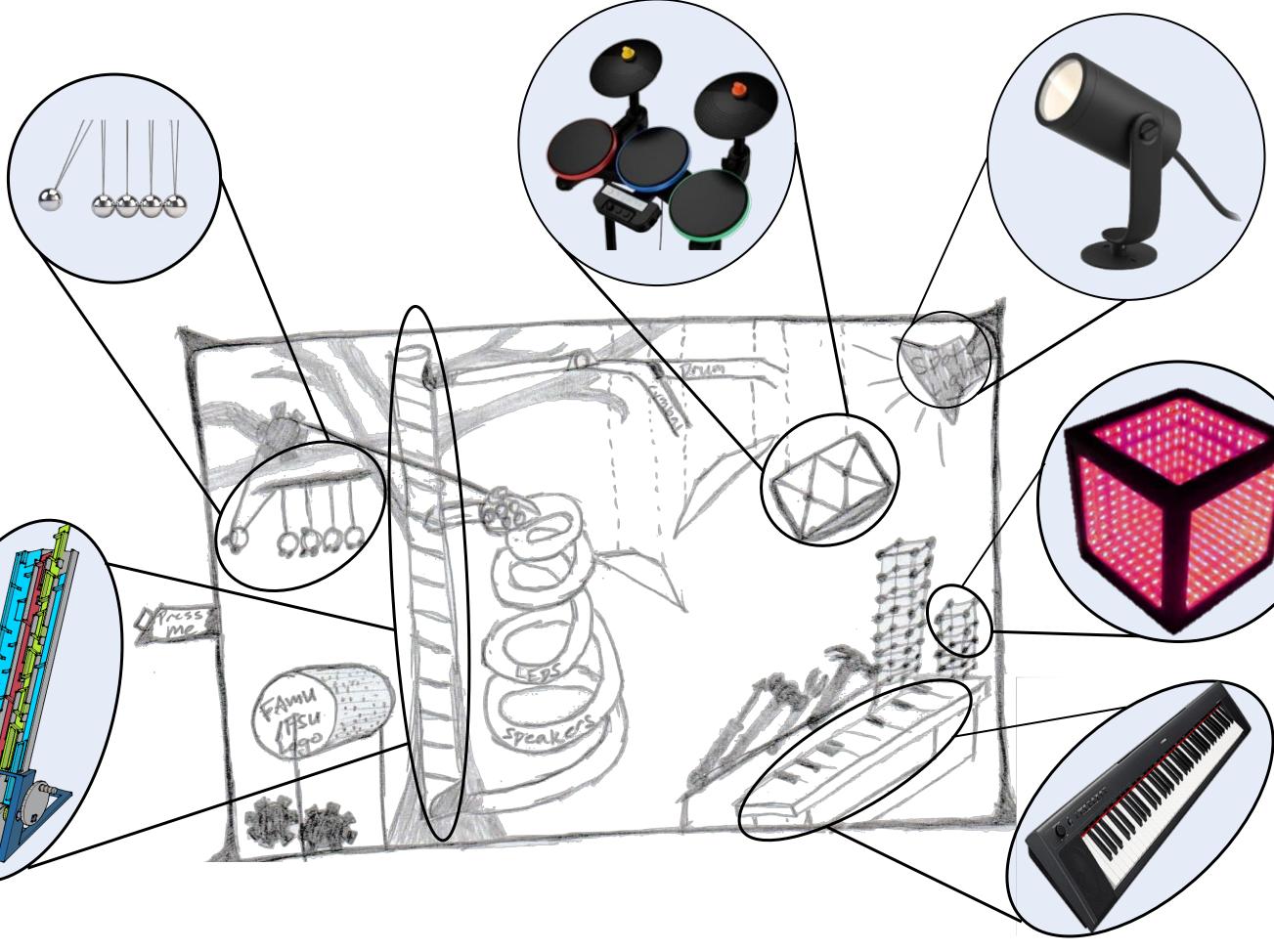
- Heard for miles
- Circus
- Crowd gathering
- Earlier versions
- Steam powered

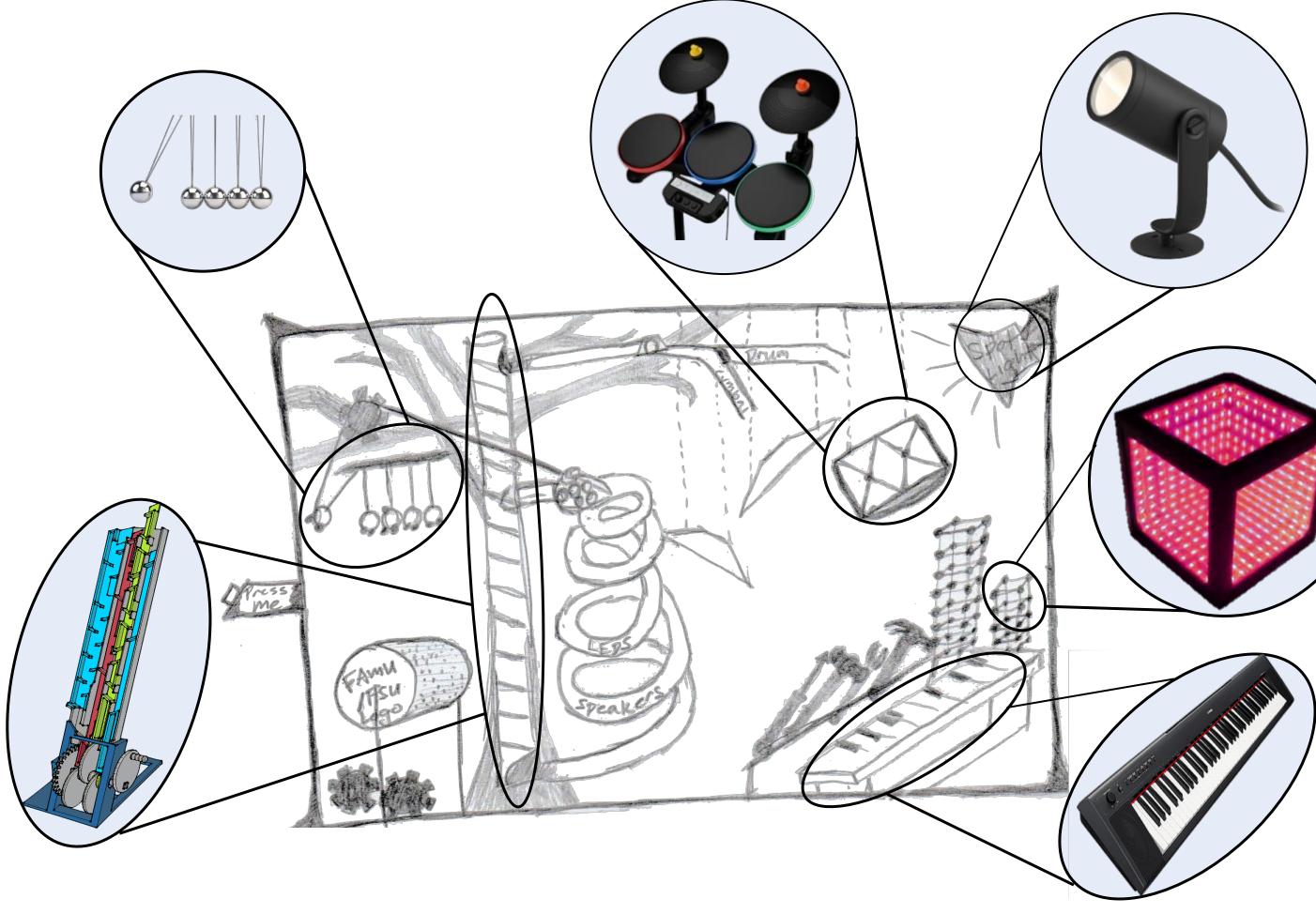


Music box

Scan this code to see Wintergartan's Marble Machine in action!

The objective of this project is a portable device which utilizes musical and visual elements to engage an audience for the purpose of representing the FAMU-FSU College of Engineering to the public.



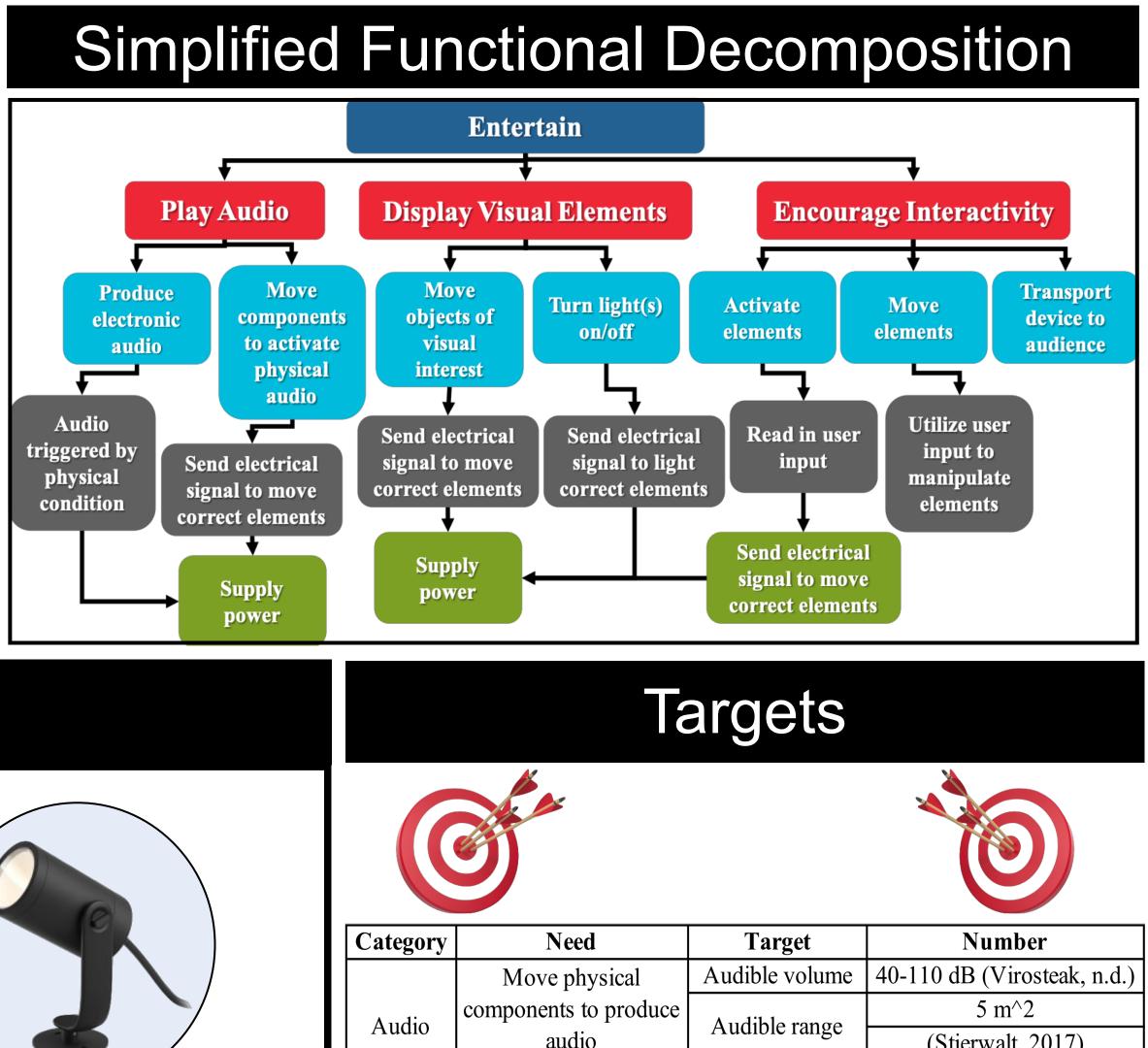


Team 515: Music Machine

Objective

Key Goals

- Serves as a public relations tool
- Plays a recognizable tune
- Intrigues an audience
- Aesthetically pleasing
- Portable
- Incorporate mechanical and electrical components
- Self-explanatory



Selected Design

Sponsors: Dean Murray Gibson and Faye Gibson



\mathcal{D}	

Audio	Move physical	Audible volume	40-110 dB (Virosteak, n.d.)
	components to produce audio	Audible range	5 m^2
			(Stierwalt, 2017)
	Recognizable song	Number of songs	1 song
Power	Supply power	Corded/battery	12 V
source			
Portability	Size	Volume	2.5 m^3
		Weight	22 kg
		Max length/width	1.98m X 0.61m
	Ease to move	Force required to start motion	220 N (Canadian Centre for Occupational Health and Safety, n.d.)

Acknowledgements

The members of Team 515 would like to personally thank Dean Murray Gibson & Mrs. Faye Gibson for allowing us to take part in this project. We would also like to thank our instructors at the C.O.E. for providing guidance and instruction to be where we are today.