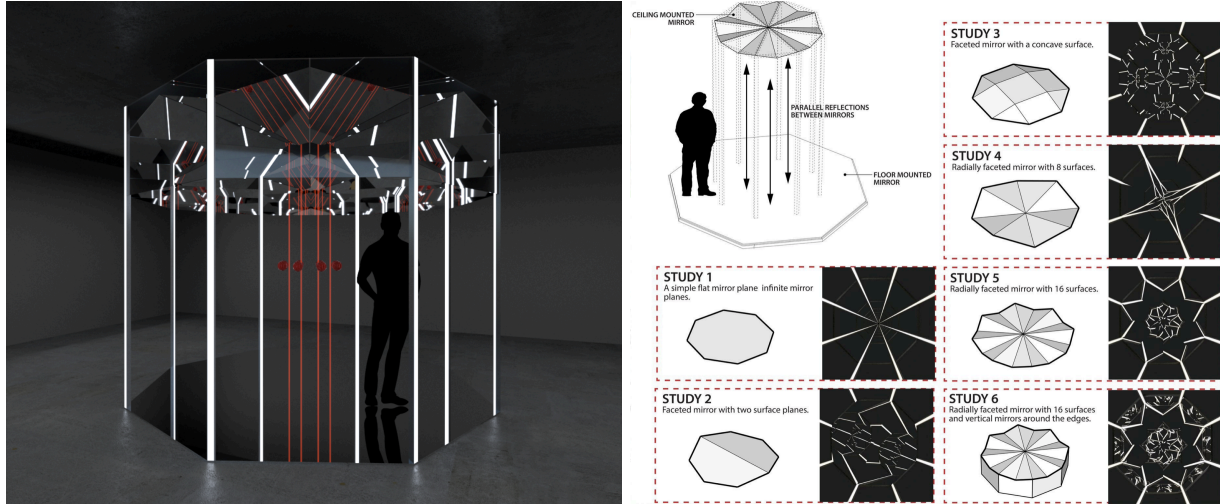


Kaleidoscope/Pendulum Exhibit (Name TBD) by Dennis Peter

- Pendulum based sequencer that sounds pleasant at all times, with a ceiling that adjusts to alter the infinite kaleidoscope effect
- Total cost of project: \$24,050

Reference Images / Video



Physical Exhibit Specs

Specs	<u>Dimensions:</u> • 28' x 13' (size of room. Installation will be in the center of the room) <u>Hardware:</u> • PC • Channel Speakers • USB Audio Interface • Dedicated WiFi Router • Smoke Machine • Metal Framework • LED Strips • PSU for LED • Arduino • Acrylic Mirror • Laser Emitter Diodes • Photodiode • Stepper Motors • Motor Driver • Wiring <u>Software:</u> • TouchPlayer • loopMIDI • PureData • DAW <u>Network Connectivity:</u>
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	• Dedicated router <u>Audio/Visual:</u> • This installation has an audio component
Install & Maintain	<u>Location in Museum:</u> • This will be on the lower level of the museum on the southeast side of the floor, east of the staircase and south of Paint Strokes and Waves.net <u>Troubleshooting:</u> <u>Maintenance:</u> •
Power	<u>Required Power Specs:</u> • No special power requirements

Visitor Experience

Guest Experience	
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Logistics: Cost & Time

Key Stakeholders	<u>Dennis:</u> • Design • Prototype • Test • Fabrication (partial) • Install <u>WNDR:</u> • Order parts to be sent to Dennis • Install <u>TBD Steel Fabricator:</u> • Fabrication
Timeline	July 15 - 31: Order and delivery of initial parts to India July 28 - August 15: Design phase August 5 - August 30: Prototyping and Initial Testing August 29 - September 18: Software and sound design September 11 - October 3: Testing September 20 - October 3: Final design changes October 4 - October 20: Order and delivery of final parts to US

	October 4 - November 5: Fabrication and on-site installation by WNDR Team October 20 - November 5: On-site installation and testing with artist
Cost	<u>Hardware:</u> <i>Note: pricing converted from INR</i> • Metal framework and Fabrication - \$959.94 • Addressable WS2812B LED light strips - \$552.92 • PSU for LED Strips - \$307.18 • ESP32/Arduino Wifi - \$92.15 • Acrylic Mirror sheets - \$345.58 • 1mW Laser Emitter Diodes - \$276.46 • Photodiode - \$163.83 • NEMA 23 Stepper Motors - \$317.42 • DM542 Stepper Motor Driver - \$153.59 • Motor shaft extension assembly - \$327.66 • Pendulum Assembly - \$255.98 • Additional Fabrication for motor housing - \$307.18 • Wiring - \$76.79 • PC running Windows (with nVidia RTX GPU) • 4.1 Channel Speakers • USB Audio Interface • Dedicated Wifi Router <u>Software:</u> • Touchdesigner/Touchplayer - \$300 • loopMIDI - Free • PureData - Free <u>Artist Fee</u> - \$4,300 TOTAL COST OF INSTALLATION + ARTIST FEE: \$21,000 <u>Travel:</u> • Flight - \$1,300 ◦ round trip from Mumbai to San Diego • Lodging - \$1,500 ◦ 6 nights max at a hotel within proximity \$250/night • Transportation - \$250 TOTAL COST OF TRAVEL: \$3,050 TOTAL COST INSTALLATION + TRAVEL: ~ \$24,050

Project Variations

Alternative Options	
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Future Forward

Mobility &	This could be installed in another space. Some of the pieces (computer,
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Reinstallation

speakers, etc.) could be used in future installations, if needed.

Renderings / Mockups

