Team TempAtADistance- Bioengineering/Global Health Senior Design 2021
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Distanced Temperature Screening System

RICE

Goal: To develop a low-cost, safe, and rapid temperature screening system that allows users to screen temperatures at a distance in order to accurately detect a fever, a common symptom of airborne diseases.
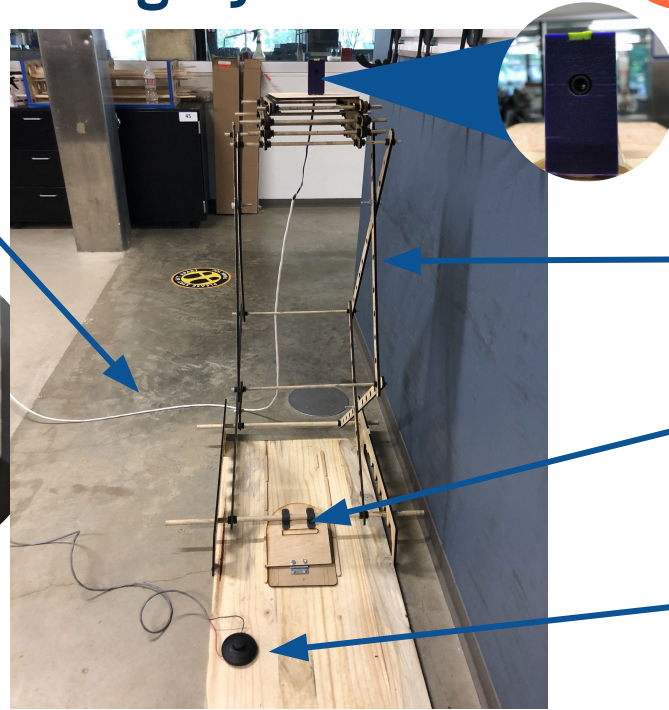

> 1 meter between Patient and User

$\pm 0.5°C$ IR Temperature Accuracy

Adjustable Stand up to 180 cm

Foot Pedal Allows for Hands-Free Stand Adjustment

Foot Button Activates Temperature Reading

Modular Design for Quicker Screenings

TempataDistance's temperature-screening system utilizes an improved infrared sensor to detect forehead temperature, allowing patients to initialize their own measurements by pressing a foot button. This temperature reading is then sent to an readout box at a 1-meter distance to a user conducting the fever screening in less than 3 seconds, allowing for a distanced, safe, and rapid procedure.