

# Tremors with Leap Motion

## The Problem

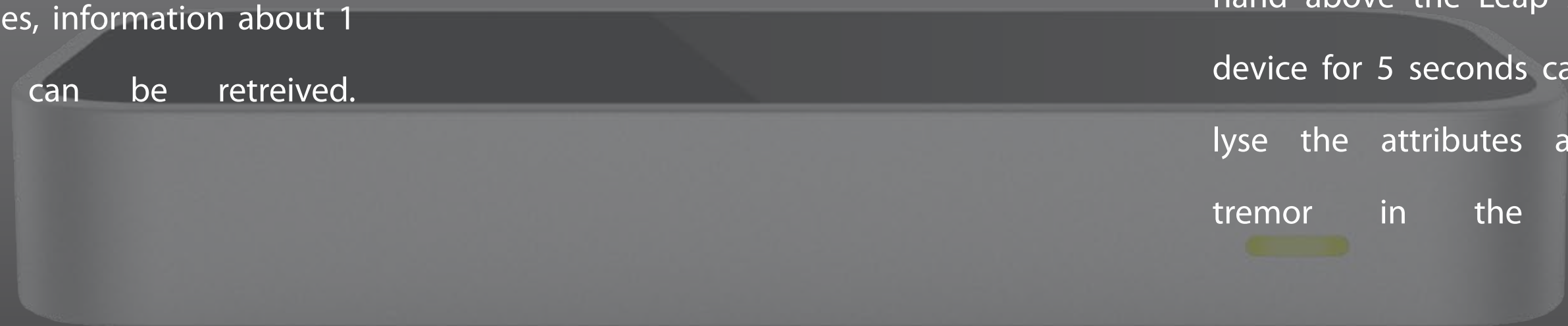
Detecting attributes of tremor in hands is currently a costly, time consuming and semi-invasive procedure. By fitting accelerometers to a patient's fingers and tracking the movements with large and expensive machines, information about 1 finger can be retrieved.

## The Solution

Dr Philip Michael discovered the Leap Motion device and immediately saw the potential to change a costly, time and space consuming procedure into an easily accessible process for patients as well as practitioners.

## The Technique

By interfacing with the Leap Motion device, the team at Swinburne developed software that is run in a browser and displays results to the patient and practitioner as soon as the test is completed. Merely hovering a hand above the Leap Motion device for 5 seconds can analyse the attributes and of tremor in the hand.



## Team Members

Josh Stopper  
Daniel Corsaletti  
Shengwei Li

Ming Duc Nguyen  
Tran Xuong Tran

## Client

Dr. Philip Michael  
Supervisor

Professor Caslon Chua

LEAP  
MOTION

SWIN  
BUR  
\*NE\*

SWINBURNE UNIVERSITY  
OF TECHNOLOGY