

A SMARTER MICROWAVE

Stuart Johnsen, Darin Stoker, James Watts

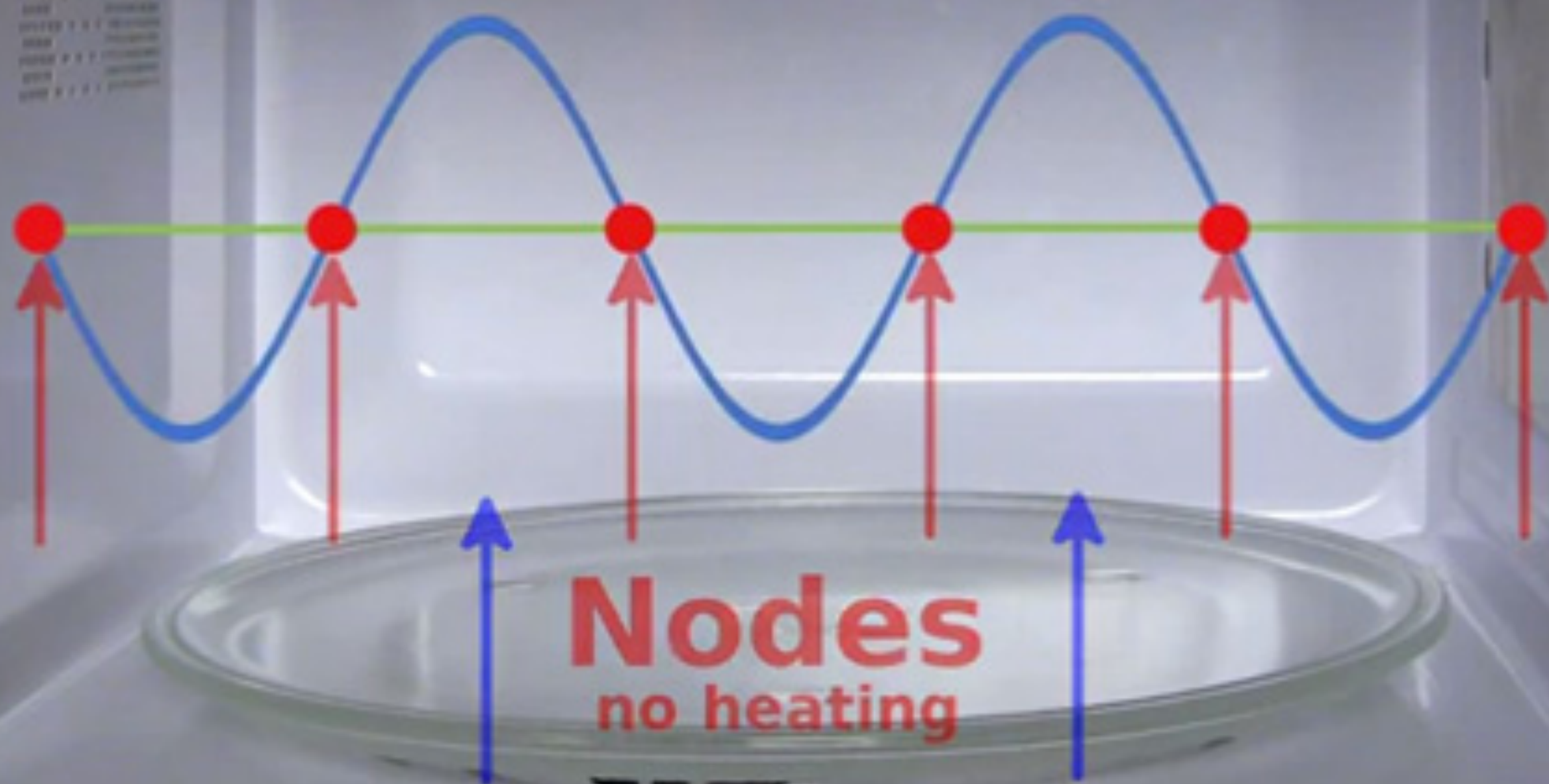
INTRODUCTION

- Age Old Problem: Lava Cheese Outside, Ice Cube in Center
- Old Solution: Nuke it!
- New Solution...

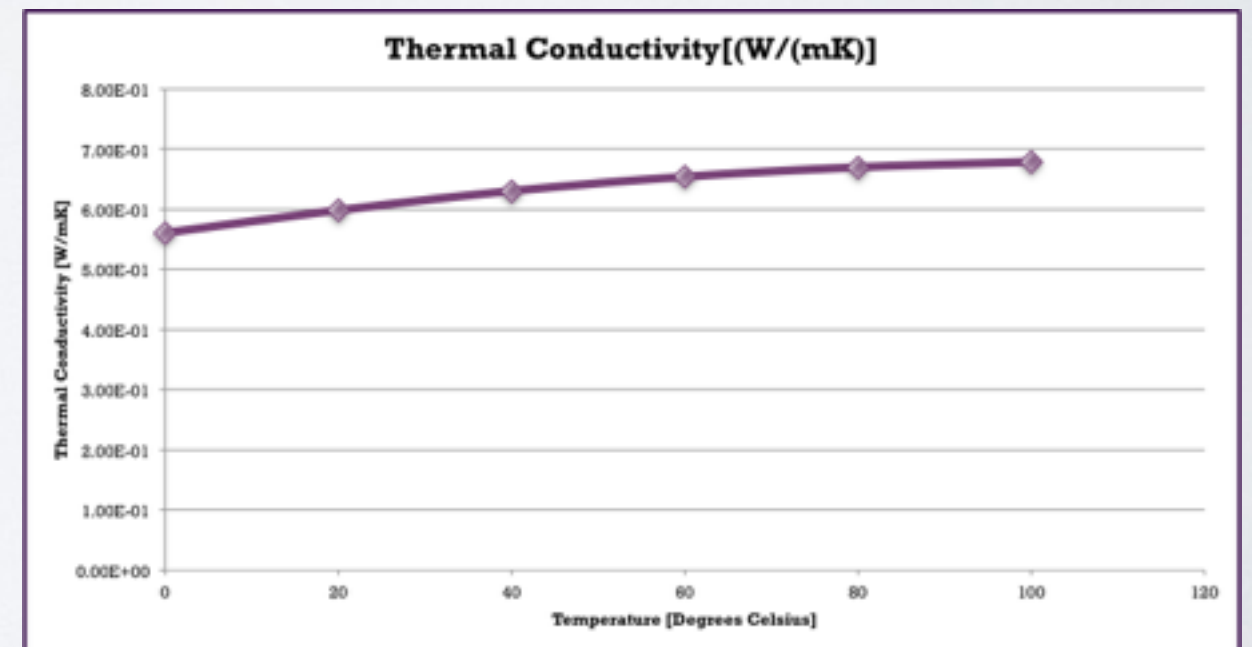
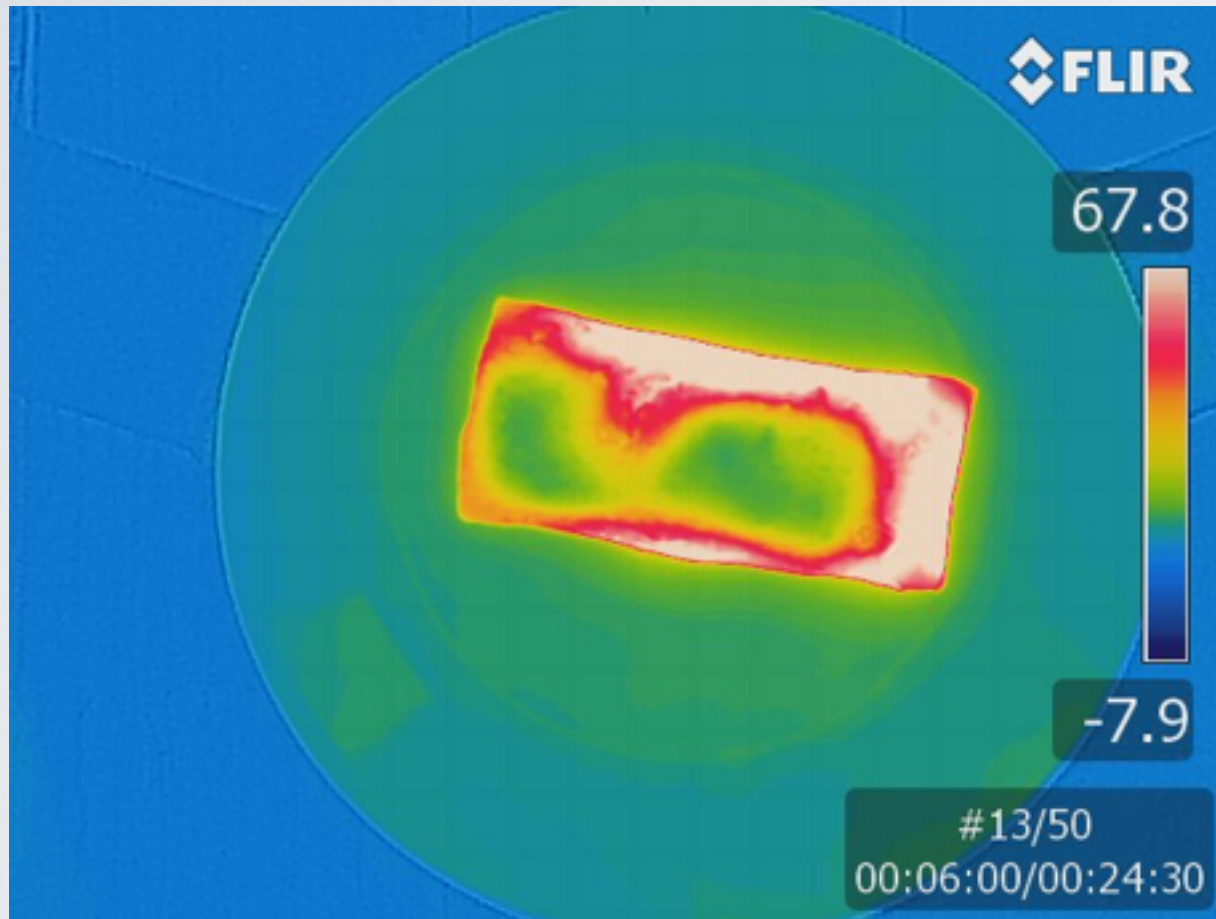


Anti-Nodes

maximum
heating



Nodes
no heating





EQUIPMENT NEEDED

- Microwave Oven
- Thermal Imaging Camera
- Android Tablet
- Android Studio
- Arduino
- Android-to-Arduino Bridge

STRETCH GOALS

- Use UPC (Universal Product Code) scanning to let the microwave know the type of food.
- Actively updated database of food cooking instructions queryable by the microwave.
- Use image processing on heat maps to control the microwave.

QUESTIONS?