# Atmospheric Water Generator Retrofit Kit

San Jose State University

Department of Electrical Engineering

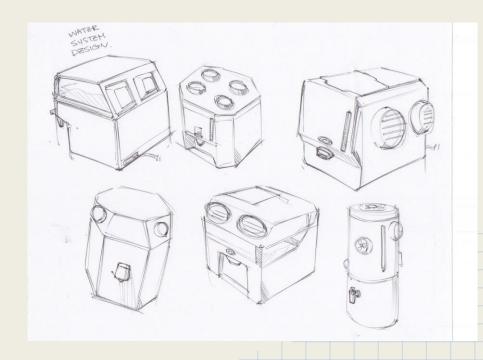
May 12, 2015

Advisor: Dr. Shahab Ardalan

Emil Kurian, Michael Fung, Edward Trinh

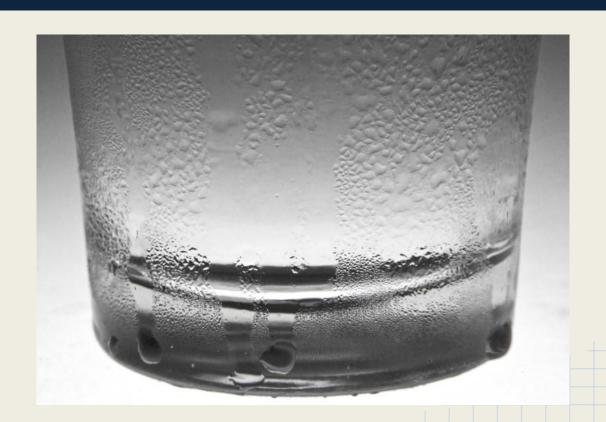
#### Introduction

- Problem
- Solution
- Objectives and Goal
- Projected Consumer/Audience



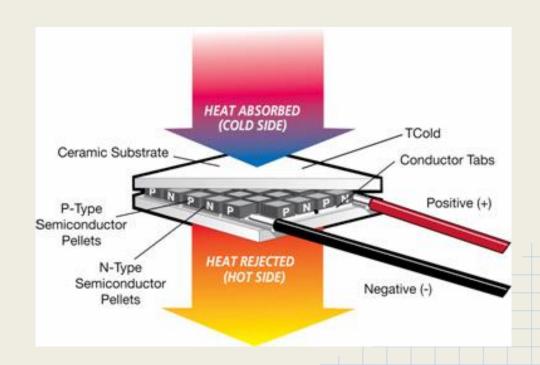


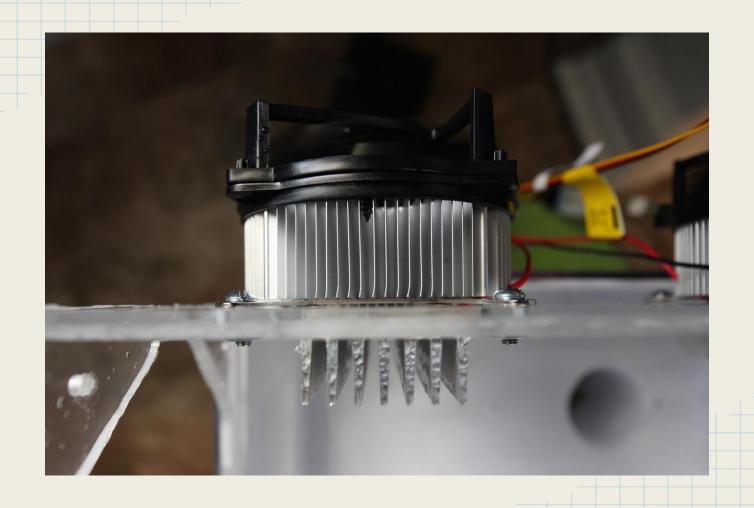
## Dew Point



#### Peltier Tiles

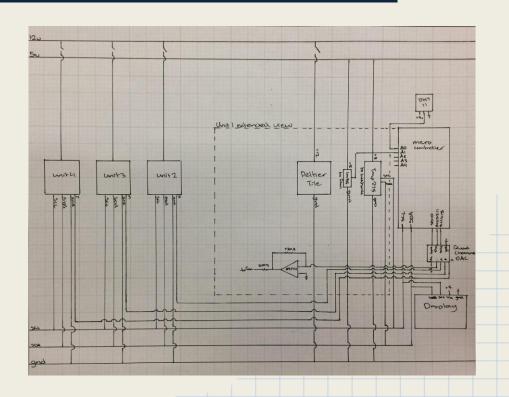
- Peltier Effect
- Compact
- How we use it



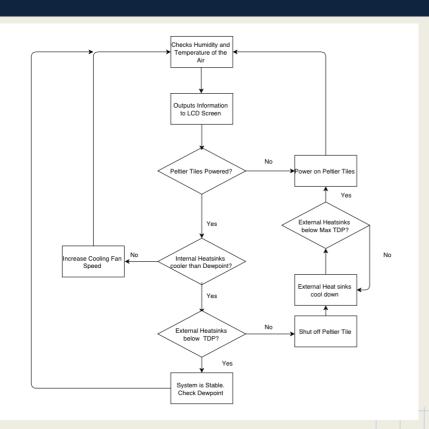


#### Hardware

- DHT11 Temperature and Humidity sensor
- LM35 Temperature sensor
- TMP275 Temperature sensor
- DAC0804S085 Quad Channel DAC
- LCD Display
- Relays
- LM741 Opamp
- Arduino Uno

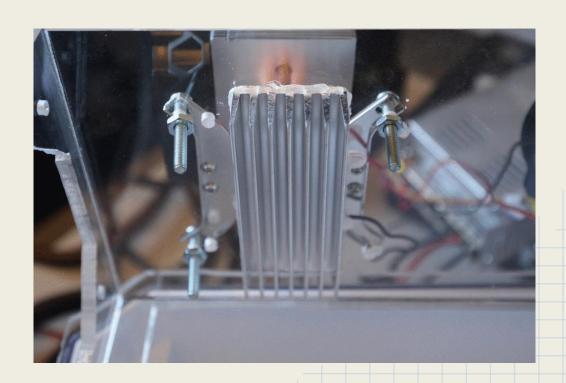


### Software



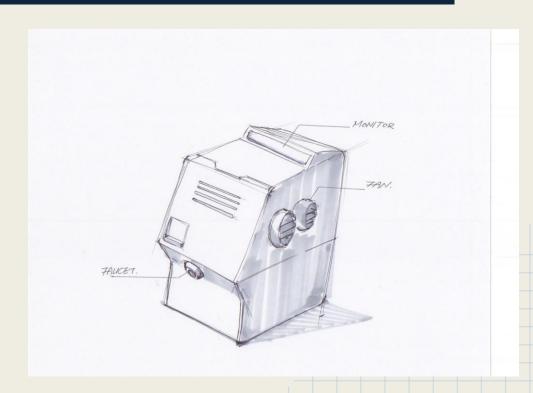
### Results/Demo

- 1.008 L / Day
  - o .7 mL / 10 min
  - o 75% Humidity



# Challenges/Improvements

- Heatsinks
- Aesthetics



## Thank You