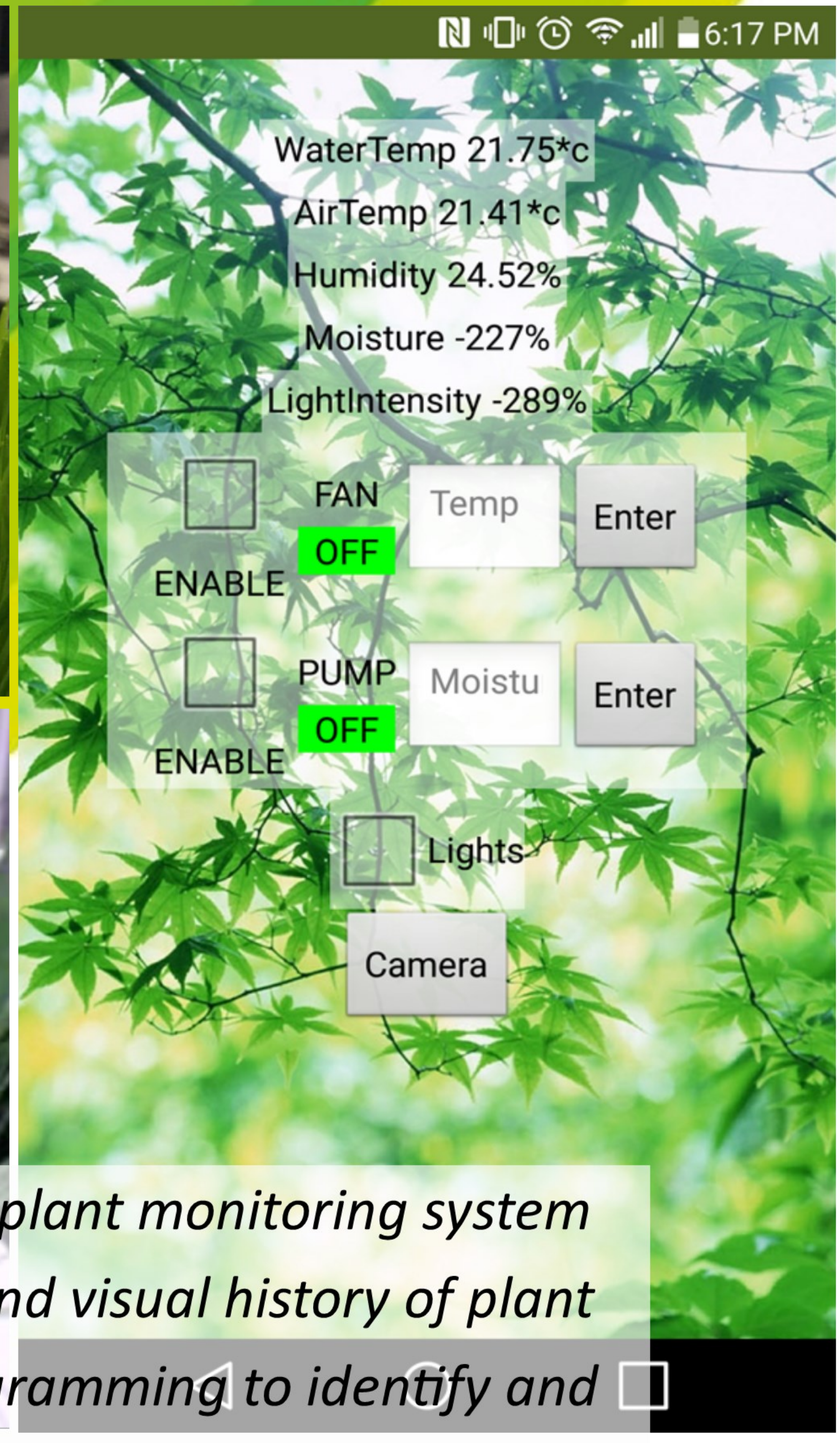# The Team

Solomon Lindsay
Project Manager

Pawan Kuman
Software Developer

Varun Prabhakar
Hardware Designer
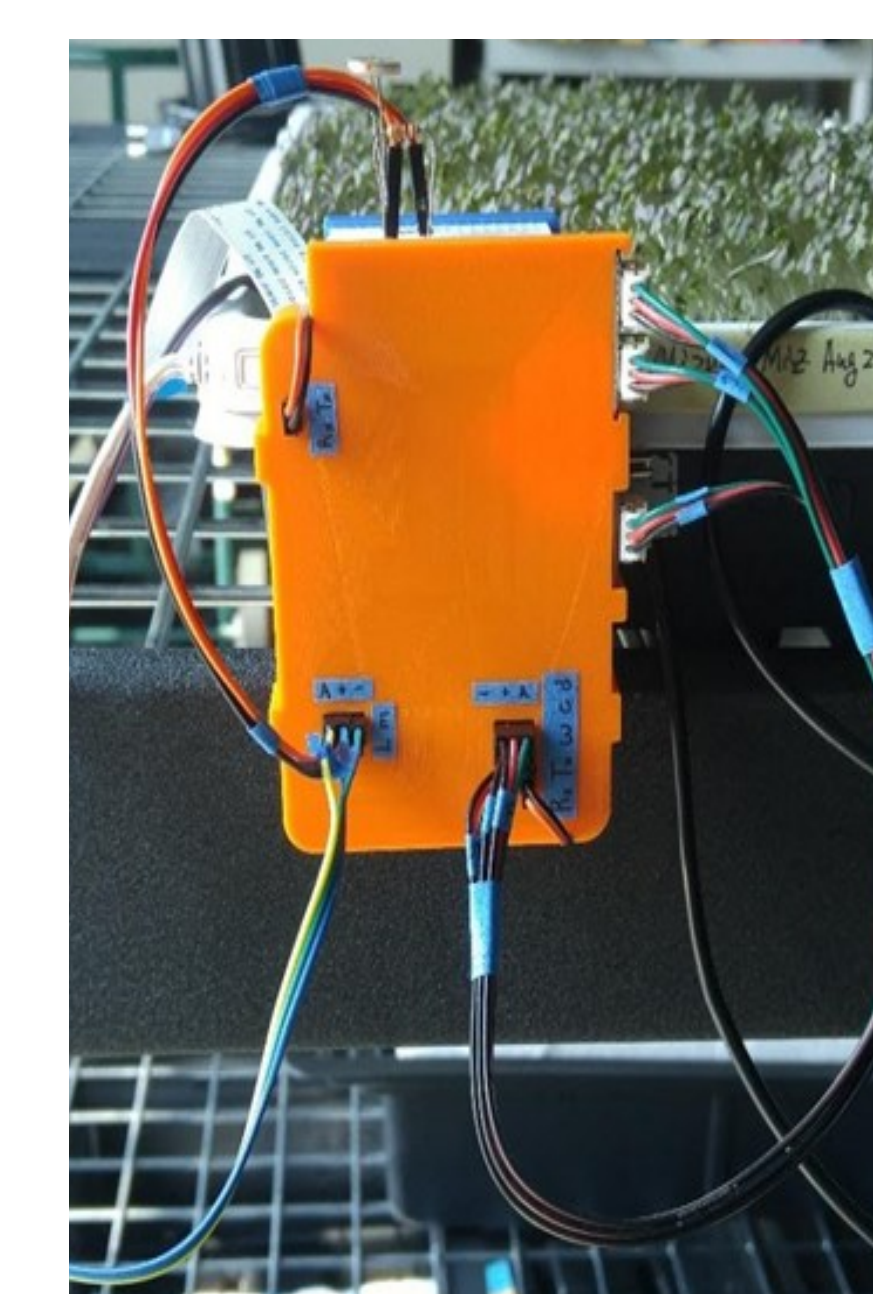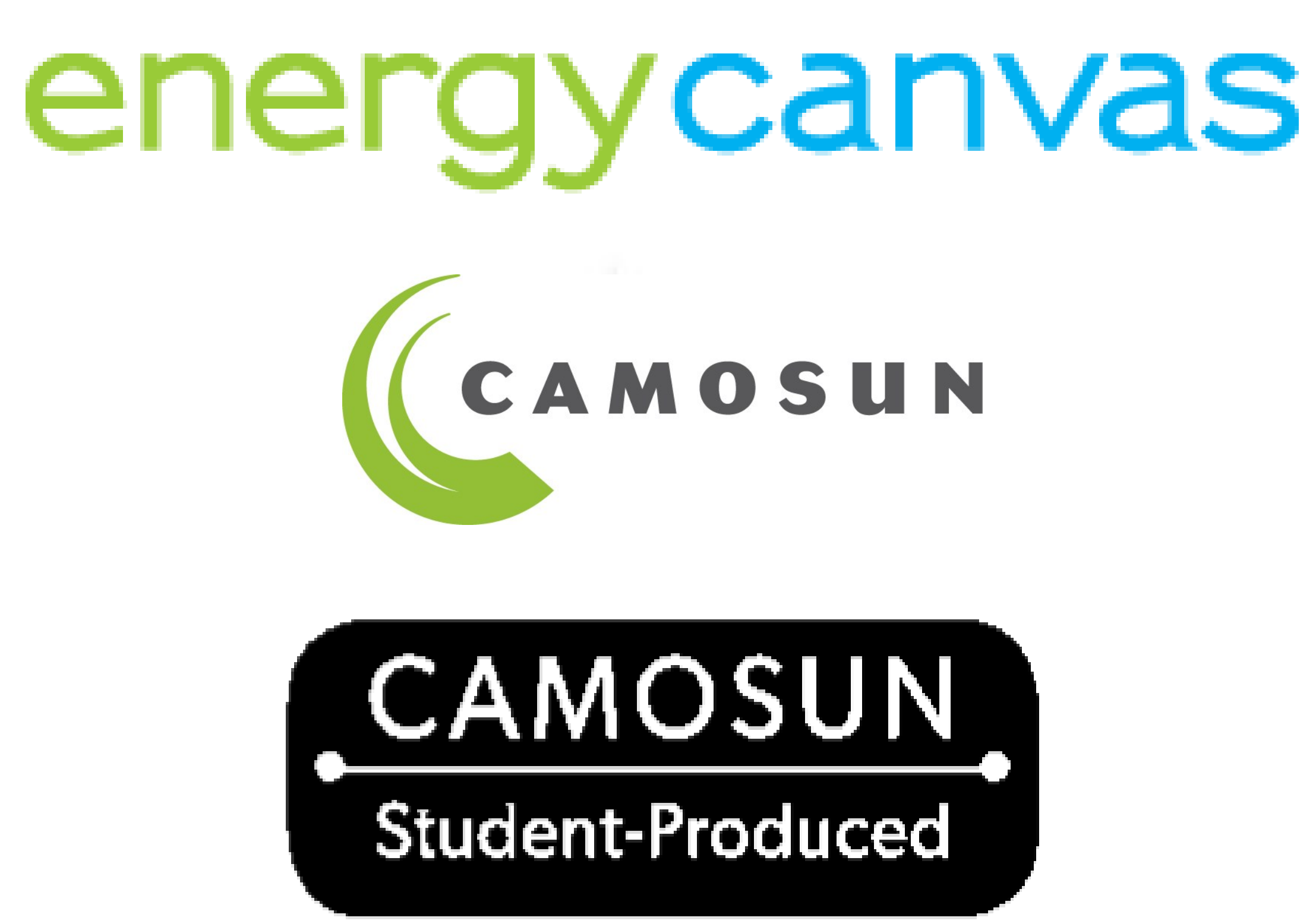
Fresh View

AUTOMATED
PLANT
MONITORING
SYSTEM

FreshView is a cloud-based plant monitoring system that provides a numerical and visual history of plant growth with intelligent programming to identify and automate the ideal conditions for growth.
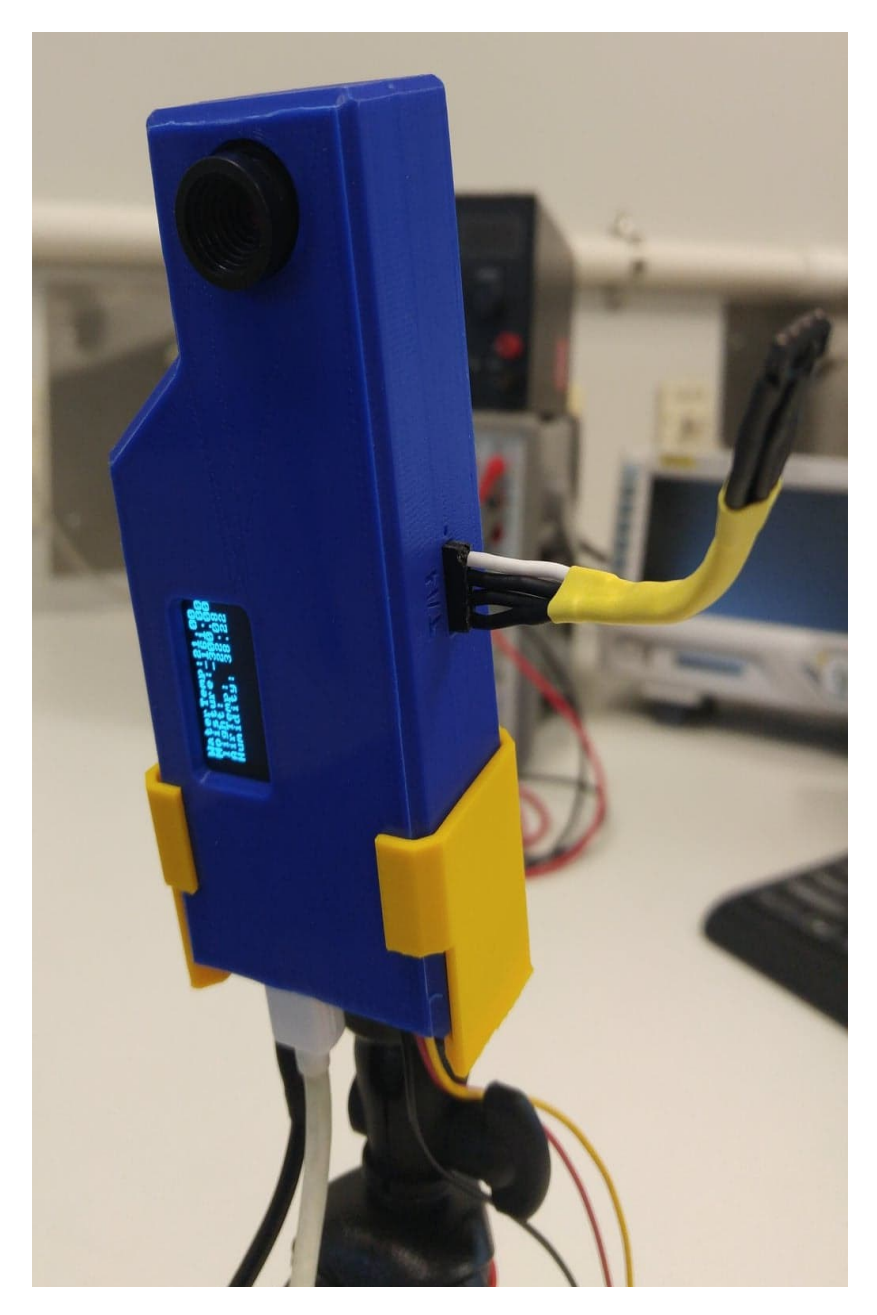
WaterTemp 21.75*c
AirTemp 21.41*c
Humidity 24.52%
Moisture -227%
LightIntensity -289%

FAN Temp Enter
ENABLE OFF

PUMP Moistu Enter
ENABLE OFF

Lights

Camera

Hardware

Heltec ESP32
Micro Controller

2MP Arducam
Mini Camera

Photoresistor Light
Intensity Sensor

Capacitive Soil
Moisture Sensor

DS18B20 Water
Temperature Sensor

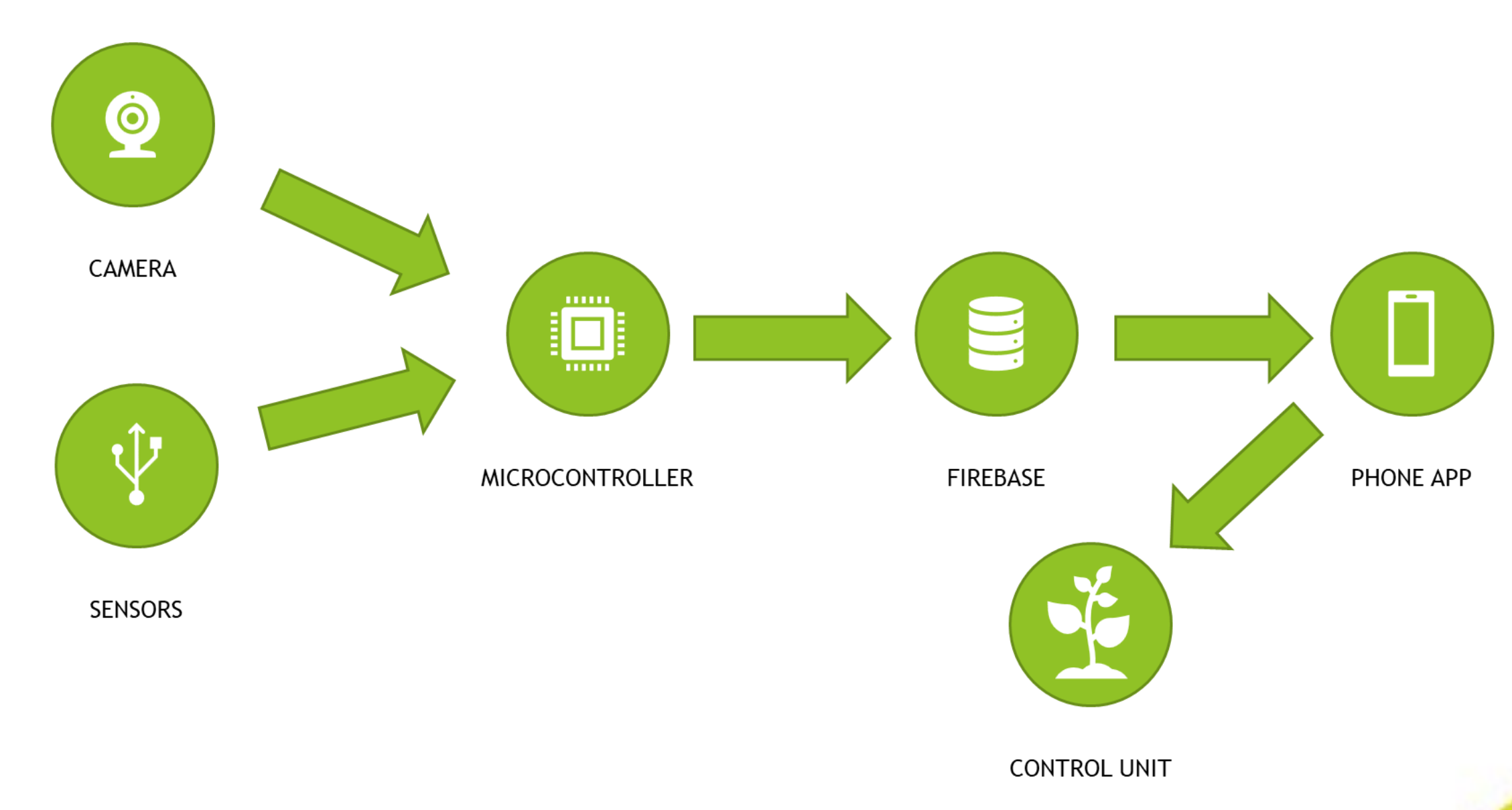HIH7120 Temperature and
Humidity Sensor

The Design Process

Genesis Model

Final Prototype

The System

CAMERA

SENSORS

MICROCONTROLLER

FIREBASE

PHONE APP

CONTROL UNIT

Software

Arduino

Firebase

MIT App Inventor

energy canvas

CAMOSUN

CAMOSUN
Student-Produced