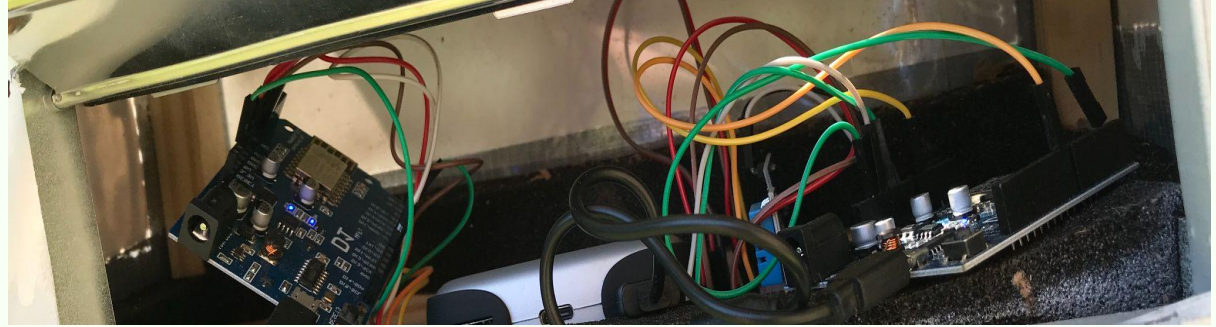


IAL 622

Final Presentation

Jeanne Reppert
UNCG
April 26, 2020

01



Sensors Used and Data Collected:

- Light sensor - photoresistor
- Air temperature and humidity sensor - Kuman Temperature and Humidity Sensor
- Soil temperature sensor - GAOHOU 2 PCS DS18B20 Waterproof Digital Temperature Sensor with Adapter Module for Arduino
- Soil moisture sensor - Kuman Soil Moisture Sensor Kit

02

Key Challenges:

- Power
- Weatherproof
- Ability to capture light data
- Processing data - grouping and converting some data to categorical variables





My Dashboard

<https://app.powerbi.com/view?r=eyJrIjojNDAxZWUzZjEtOWIxMS00NGZmLTgyNigtZTRhNjllNzdkNiU4IiwidCI6IjczZTE1Y2Y1LTVhYmItNDZhZilhODYyLTc1MzdxNiI2OWQ3MyIsImMiOiF9&pageName=ReportSection>

Conclusions and Future Plans



Conclusions

- Light data was very useful
- Interpreting soil moisture data was challenging



Future Plans

- Better power sources - solar
- More compact shape
- Multiple stations