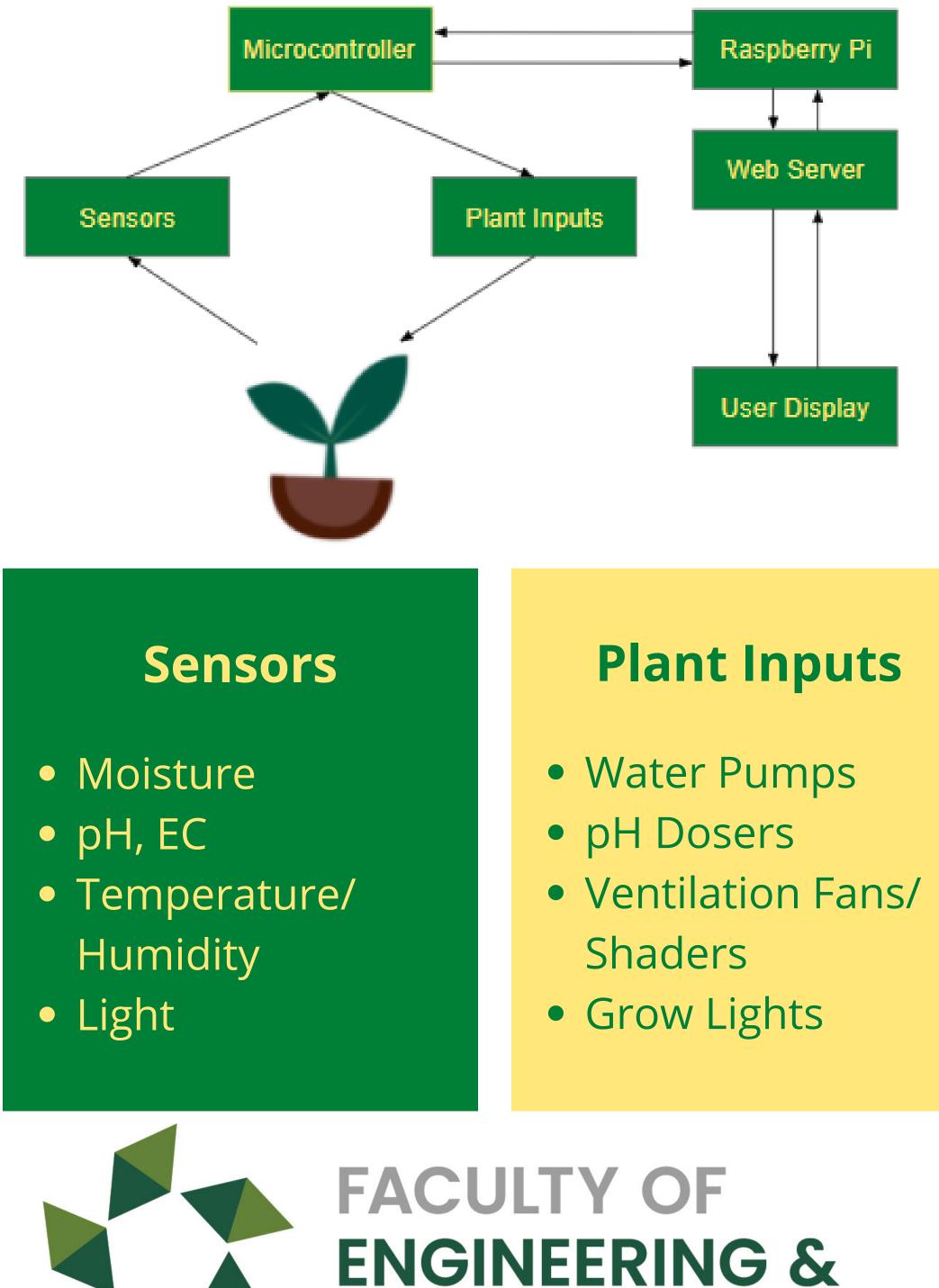
# Automated Greenhouse System Brandon Morgan, Don de Jesus, Klaude Dungca Advisor: Dr. Irfan Al-Anbagi



APPLIED SCIENCE





### You are planting tomatoes outdoors.

RANGE

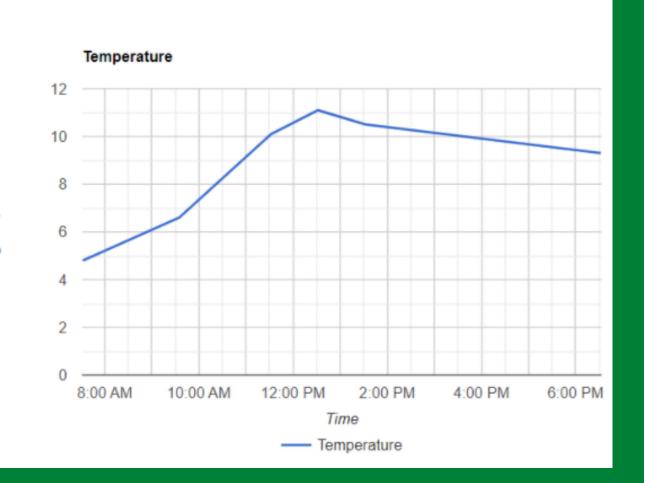
Choose your date range

From Date

e To Date

#### Temperature

Date	°C	<b>^</b>
2022-03-14 21:31	25.3	
2022-03-14 21:31	23.5	ç
2022-03-14 21:31	22.5	Contractor
2022-03-14 21:32	20.1	0
2022-03-14 21:32	19.6	
2022-03-14 21:32	15.8	
		-



# P • •

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Ack •

## Objective

- Short gardening season in Canada
- Late thaw in spring, Early frost in Autumn
- An Automated Greenhouse provides flexible gardening without the stress of winter weather.

#### **Power & Safety**

- 12V Wall Adapter
  Fuse Protection
  Emergency power switch
  Voltage Regulation
  - for 5V & 3.3V
  - components

#### **Web Application**

- User display for
  - data aggregation
  - and analysis.
- Cloud stored
  - database using
  - Amazon AWS.

#### Acknowledgments

#### Water & Chemical

- Collect Rainwater
- Water Pumps
   between Tanks
- Auto Adjusting pH levels.
- Manual Fertilizer
   Addition

#### Sunlight & Temperature

- Fan ventilation for climate control.
- Shade Curtains for temperature control.

Dutch Growers Home & Garden
Sherwood Greenhouse & Gardencentre Ltd.
Whole Leaf Healing Tree
Doug Wagner, P. Eng