Specific Gravity Measurement Device

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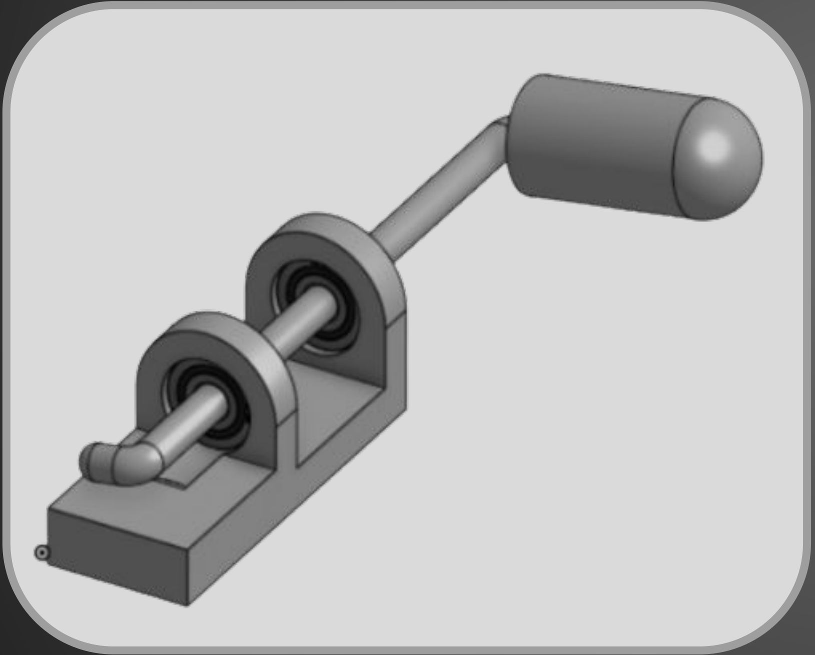
Group 007

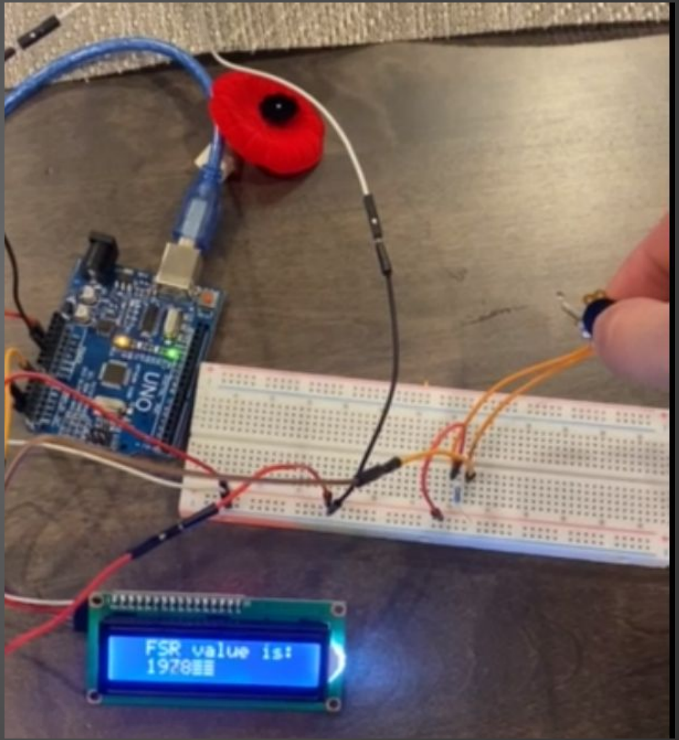
Problem Statement

- Safely and accurately measures **specific gravity** of beer during the beer making process.
- Automatically logs the **data**

$$\textit{Specific Gravity} = \frac{\text{density of the object}}{\text{density of water}} = \frac{P\ \text{object}}{P\ H_2O}$$

Measurement Design





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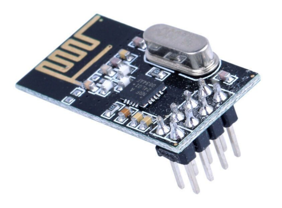
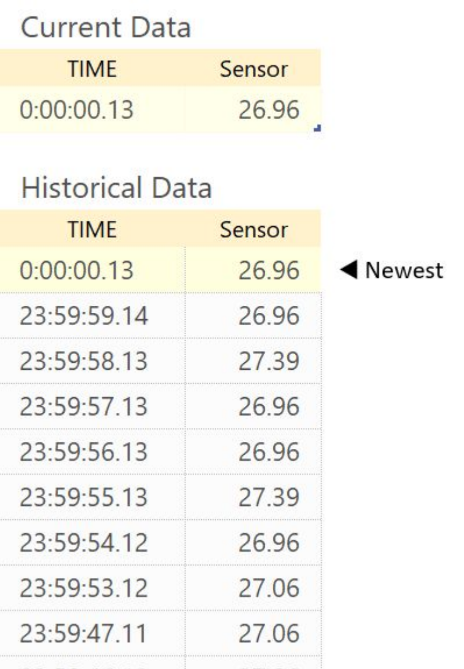
Display Design

NRF24L01



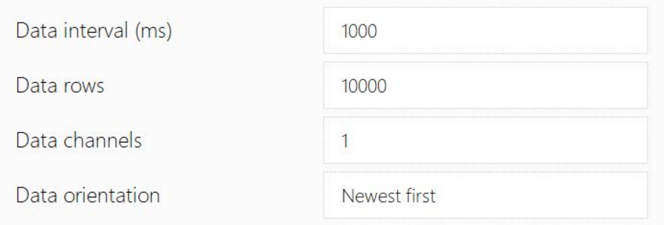


Current Data

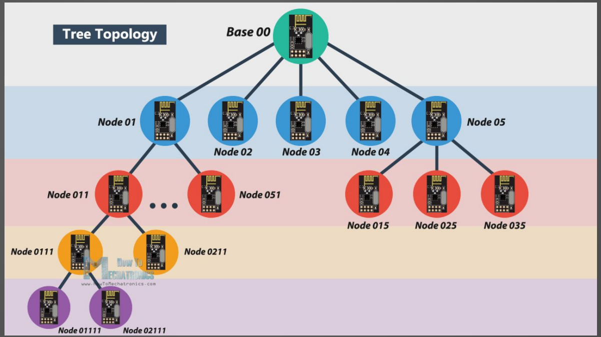
TIME	Sensor
0:00:00.13	26.96

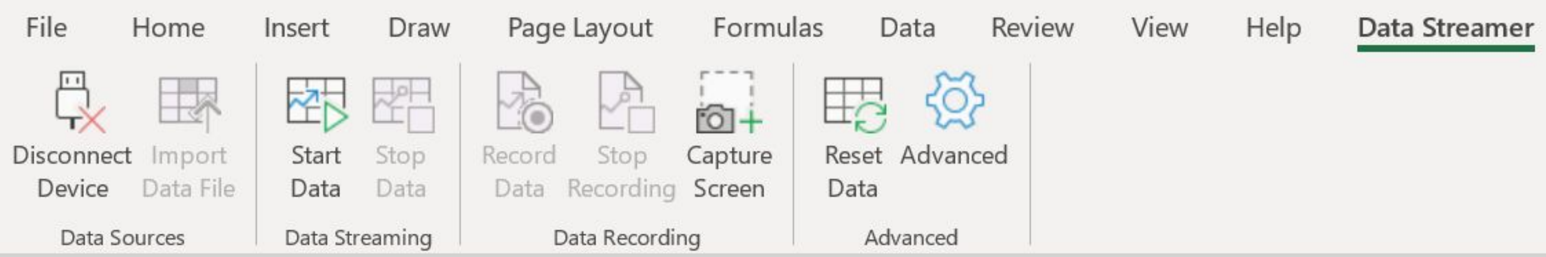
Historical Data

TIME	Sensor	
0:00:00.13	26.96	◀ Newest
23:59:59.14	26.96	
23:59:58.13	27.39	
23:59:57.13	26.96	
23:59:56.13	26.96	
23:59:55.13	27.39	
23:59:54.12	26.96	
23:59:53.12	27.06	
23:59:47.11	27.06	
23:59:46.10	27.06	



Data interval (ms)	1000
Data rows	10000
Data channels	1
Data orientation	Newest first





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Questions

Are our designs feasible to be **food grade**? Is **copper** a potential material?

Do you have any **concerns** for our current design?

Are there any aspects missing to our device?

Anything we need to clarify?

Are there any unnecessary features you can’t see yourself using?