

# Assignment 1

## Linear Systems and Approximations

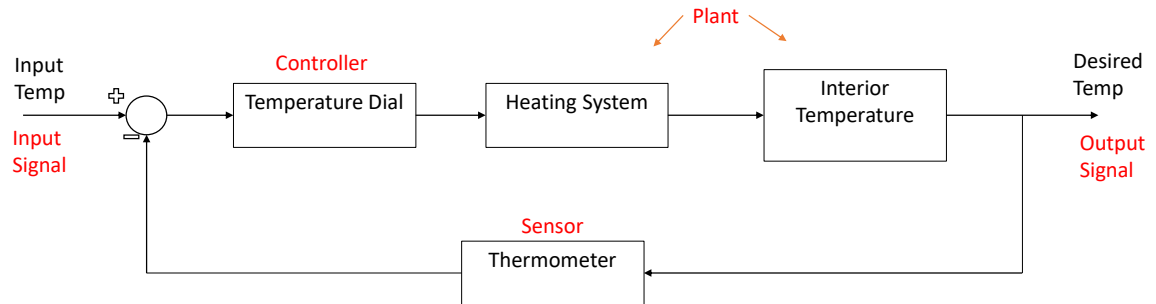
Nusair Islam

# 1. Control Systems – Oven



FIRST LOOK Oster XL French Door Convection Oven Pizza [Digital image]. (n.d.). Retrieved from <https://www.youtube.com/watch?v=Qv3kL6ePjNk>

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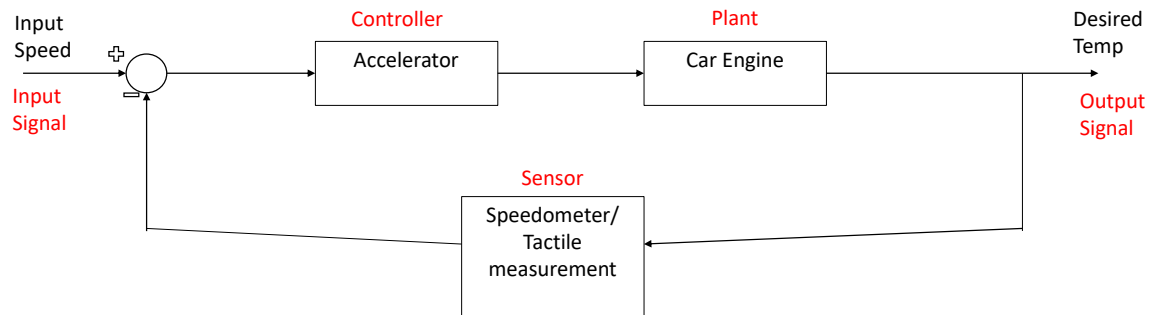


# 1. Control Systems – Car Speed

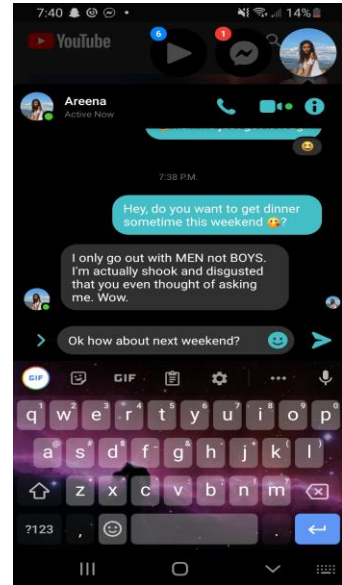
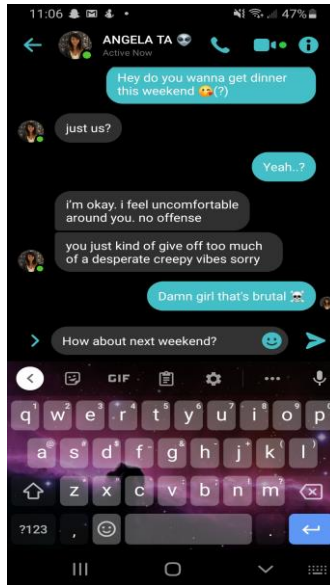
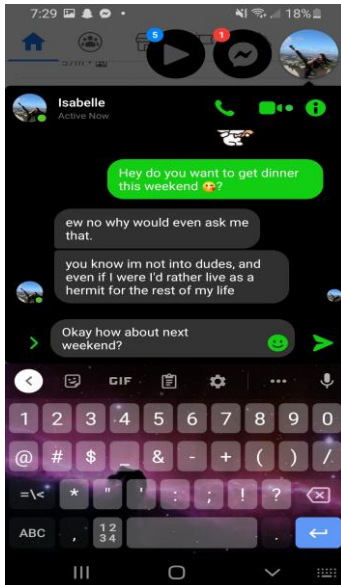


Mason, S. (n.d.). How accurate is your car speedometer? [Digital image]. Retrieved from <https://www.thecarexpert.co.uk/how-accurate-is-a-car-speedometer/>

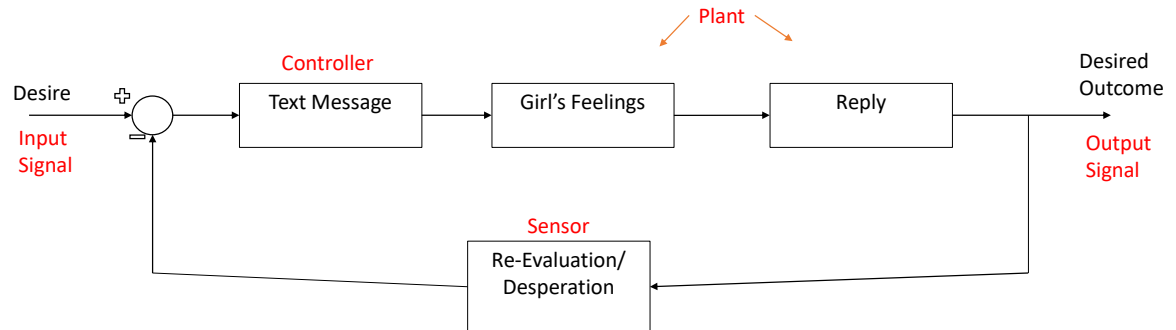
# 1. Control Systems – Car Speed



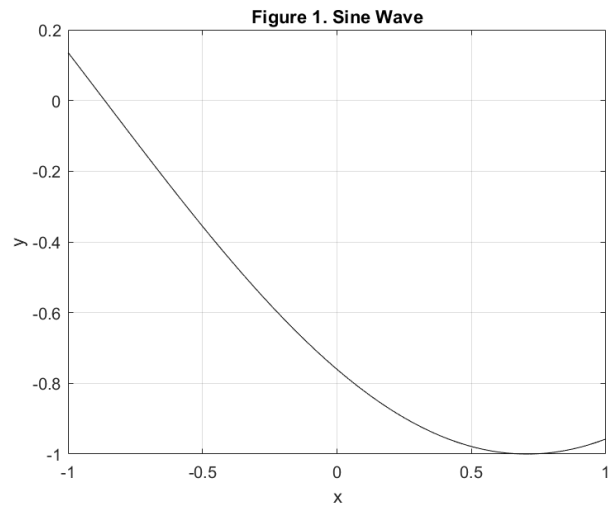
# 1. Control Systems – Asking a Girl Out



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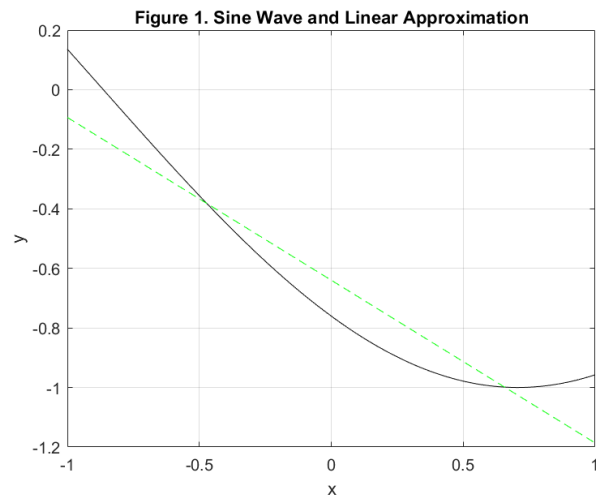


## 2. Plot sine wave





### 3. Plot linear approximation of sine wave segment



4. Plot the error between the sine wave and linear approximation, absolute value

