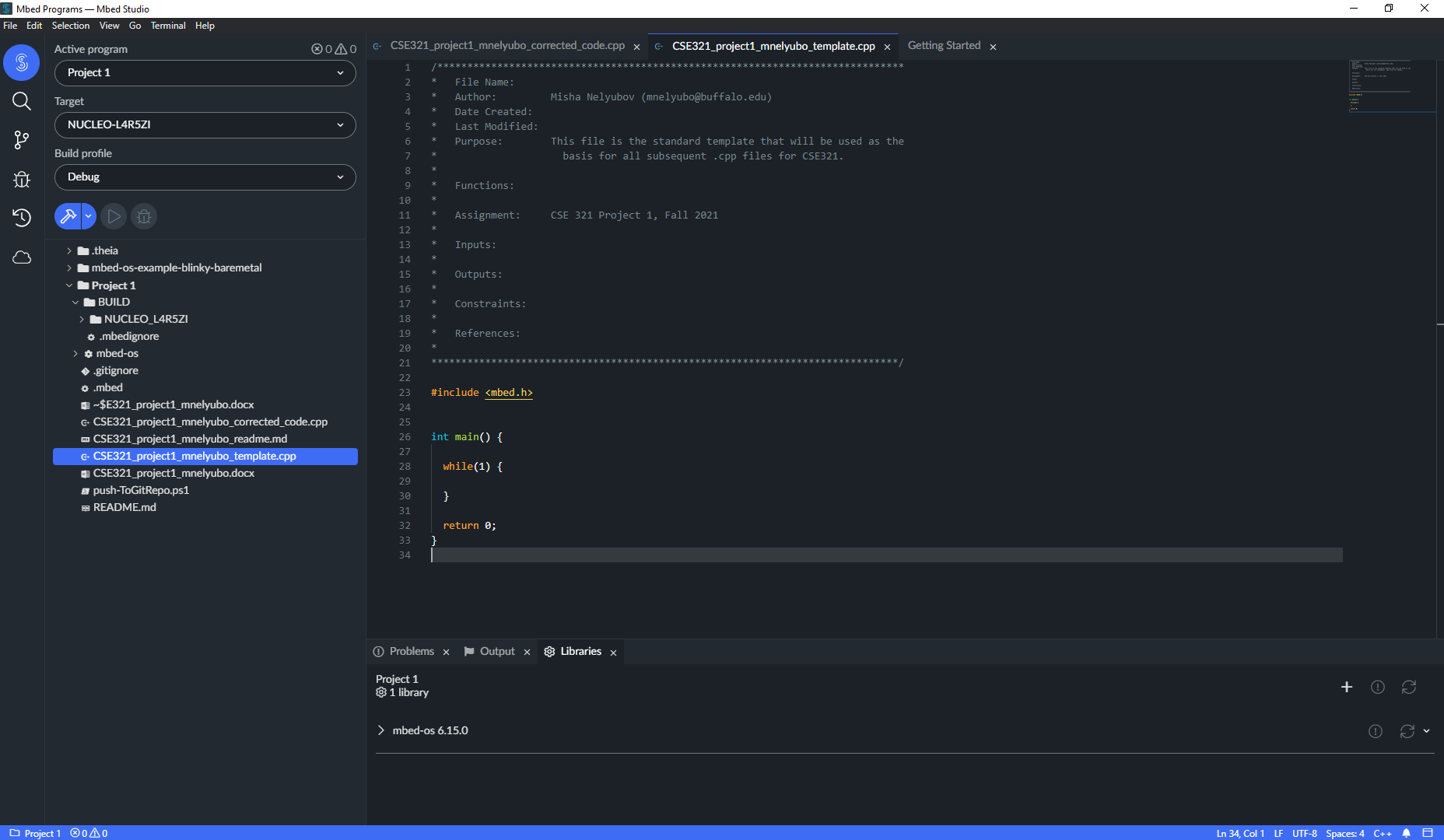
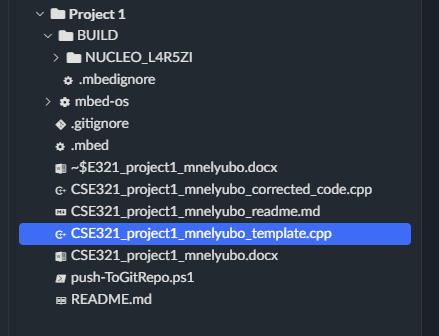
CSE321 Project 1

# Part 3:

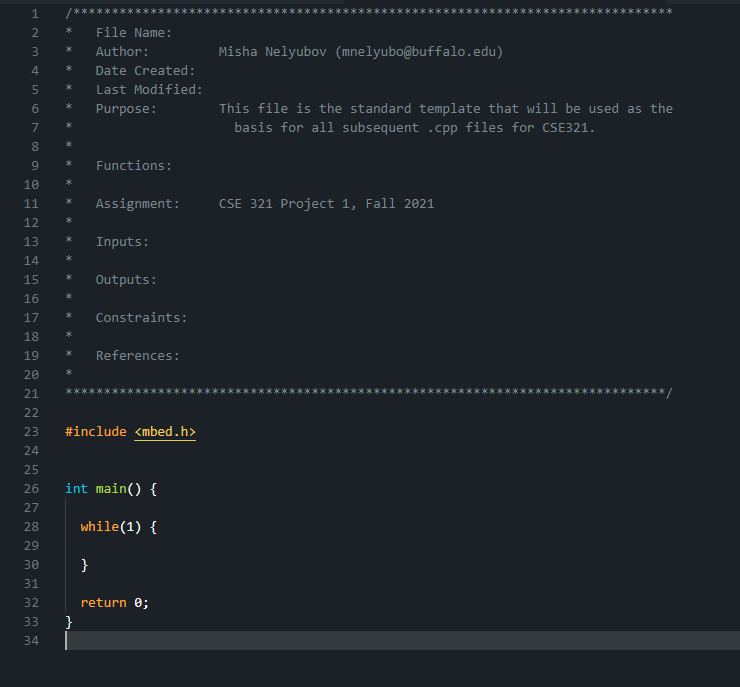
IDE Overview



Project Tree:



Standard Template with header:



# Part 4: GitHub

Account Name: MSNelyubov

Repository URL: https://github.com/CSE321-Fall2021/cse321-portfolio-MSNelyubov/tree/main

# Part 5: Planning a Traffic Controller

## Given Problem statement from the instructions:

An IoT device is needed for controlling traffic on campus based on geese proximity. These are special geese, and they need to stay safe. The device will be programmed with a standard embedded OS and will make use of sensors for detecting traffic and geese. The traffic is controlled by a single light that will stop traffic in all directions, when needed, to protect the geese by turning red. When traffic can flow, the light blinks red and is treated as a stop sign.

## Purpose

* To protect geese from traffic by signaling traffic to stop for a traffic light.

## Inputs

* The presence of geese
  + Must be detected by sensors

## Outputs

* A Red LED that will either blink or stay lit up.
  + Brightness must be sufficient to be seen by oncoming traffic in day and nighttime conditions
  + Light output power supply should remain on at all times

## Relationships

* The output LED should blink in the absence of geese and stay consistently bright in the presence of geese.

