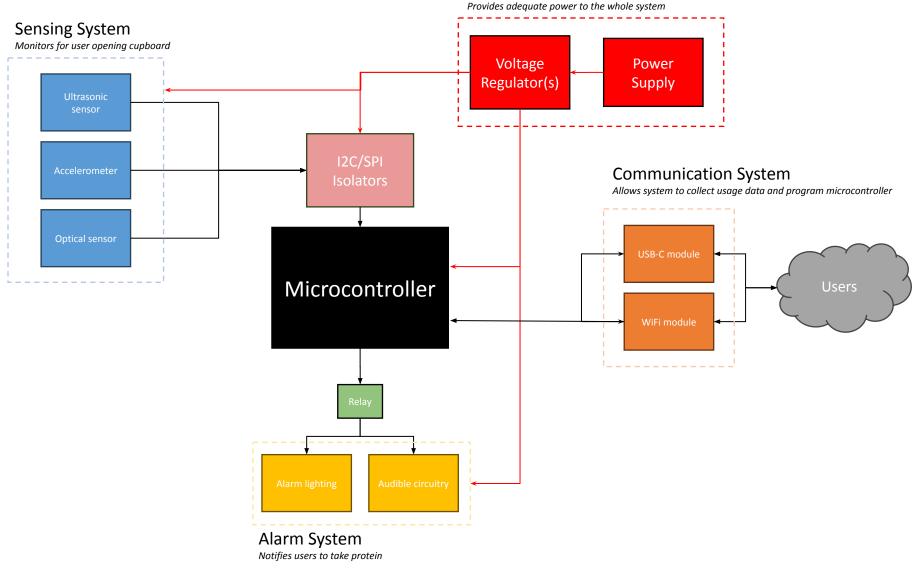
## THE PROTEINATOR

## **EE 256 Product Design Document**

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## Overall project requirements

- A suitable project shall have:
- a microcontroller
- at least two (2) sensors
- the ability to log sensor data
- at least two (2) communication one or more buttons
- modalities one or more knobs

A suitable project may have:
• one or more actuators

(may be touch sensitive)

- es one or more
- a power system
   an ADC external to the μC
   fits on a 99 mm x 99 mm PCB

## How to write the Design Specification

- As you make the block diagram and schematic, record all of the decisions you made. Are there some with interesting tradeoffs? Discustose.
- Any clever design features that are hard to pick up in the sea of boxes and resistors? Let your light shine
- Think about how you will bringup and test the circuit against the requirements. Let this inform some of the discussion.
- If the circuit malfunctions later, does the design specification help ident correct signals and voltages at various block I/O's?