



## TEAM MEMEBERS



(Dylan, Alfonso, Mohamed)

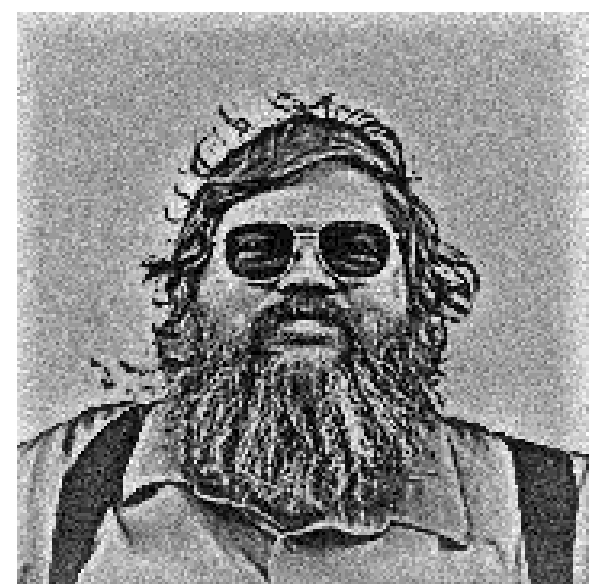
## ACKNOWLEDGMENTS

Special Thanks to



Dr. Bill Stapleton (Left)

Dr. Kevin Kemp (Right)



Advisor



Sponsor

## Project Overview

### Project Description:

- Click Sensor Hub is an IoT extension for the FRDM-KL46Z development platform.

### Project Motivation:

- Enables a lost cost NXP development board to evolve into a modern IoT project kit.
- The four mikroBUS™ socket design goes beyond the current two socket capabilities of NXP clickSHIELD

### Project Design Flow:

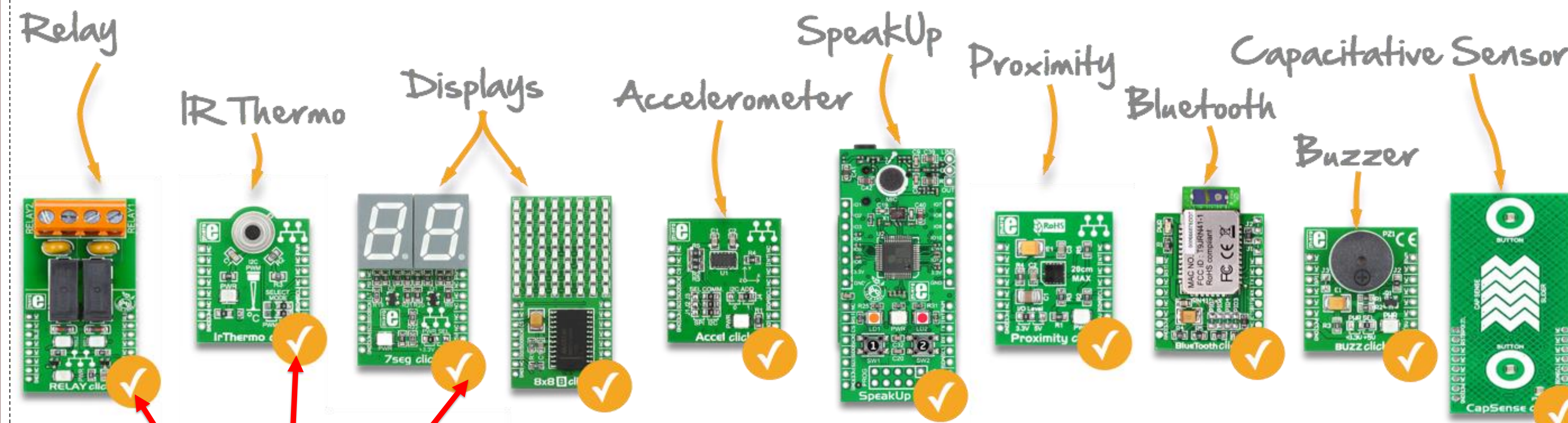
- Hardware Design
  - PCB Connectivity with KL46Z
  - PCB Connectivity with Click
- Software Design
  - Code for ten select Clicks.
  - Any of the four mikroBUS™ sockets have connectivity with ten selected Click.
  - Store and format Data Values.
- Simple Data Analytics
  - Access the data and perform basic calculations. (High/Low Value, Mean,...)

### Next Semester Deliverables:

- Completed PCB Design
- Functionality Code for Ten add-on boards
- Error Handling/User Guide Created
- Demo Video of Rapid IoT Functionality
- (Stretch Goal) Website for Data Analytics

## EXPANDED DESIGN BREAKDOWN

Click and Go Design: Take any Click connect it to any mikroBUS™ socket begin your IoT project



What is the mikroBUS™ Standard and How its changed IoT

