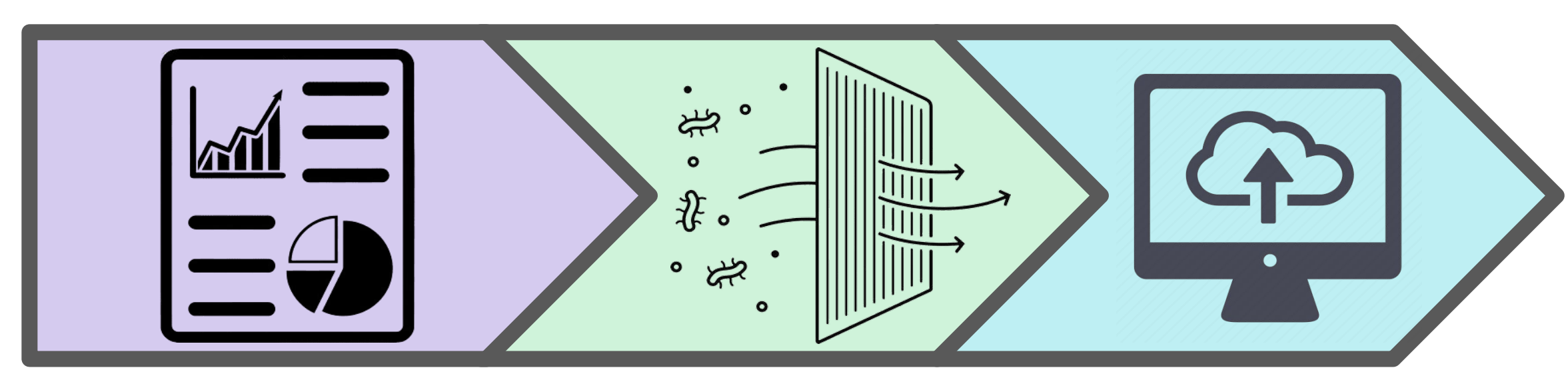


P.o.E (Purification over Ethernet)

PoE Air Quality Control System

Purpose

A control system powered over ethernet (PoE) that maintains clean air in a smart hotel room.

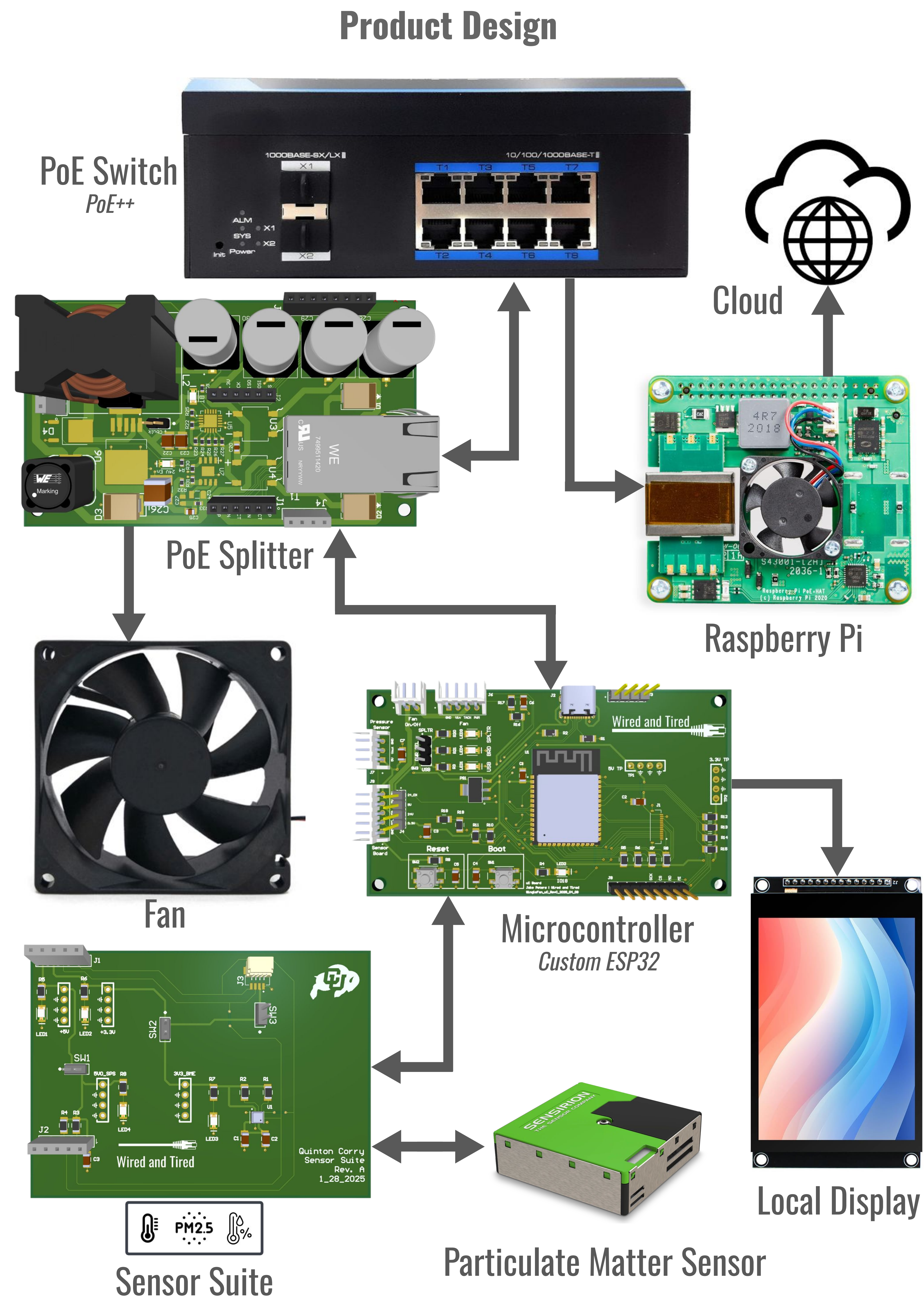


- ### Product Details
- Air quality monitoring and reporting
 - Air filtration control system
 - Powered over single ethernet cable
 - Data displayed locally and in cloud

- ### Development Process
- Learning to implement PoE
 - Meeting pressure and power demands of fan
 - Ethernet communication protocol
 - Power management to devices from PoE switch

Acknowledgements

Thank you to Luis Suau at Sinclair Digital, Michael Pearce, Sean McDonough as well as Professor Bogatin, Ryan McCallan, and the entire Capstone Team.



- ### What is PoE?
01. Data and power in a single ethernet cable
 02. Provides DC power to devices
 03. More efficient power grid

