Mining Environment Inspection Module

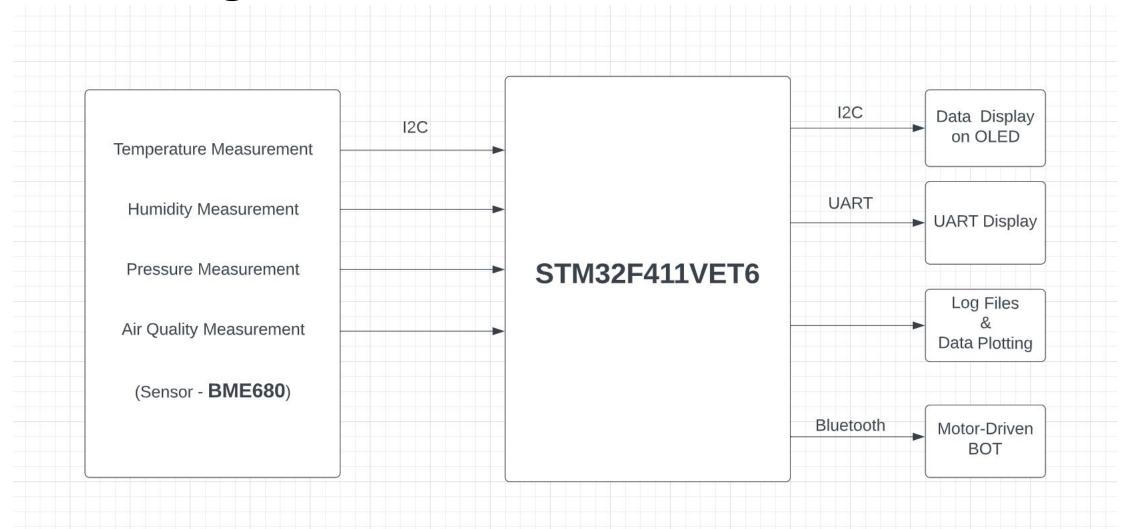
ECEN 5613 – Embedded System Design Project Demo

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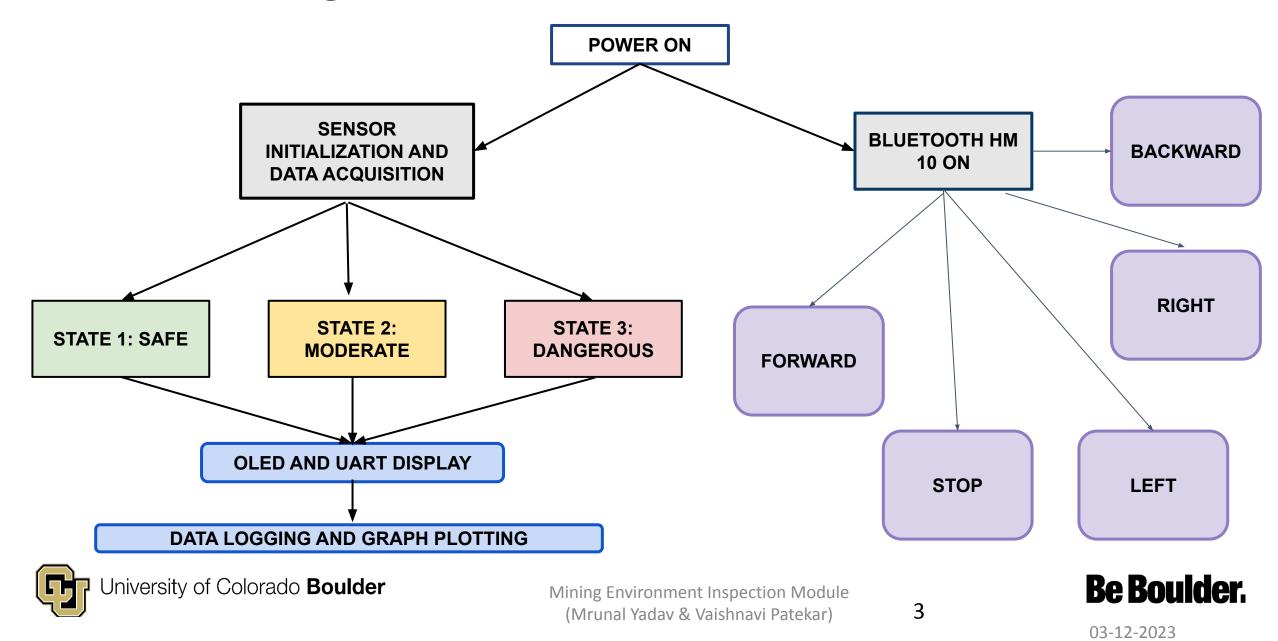


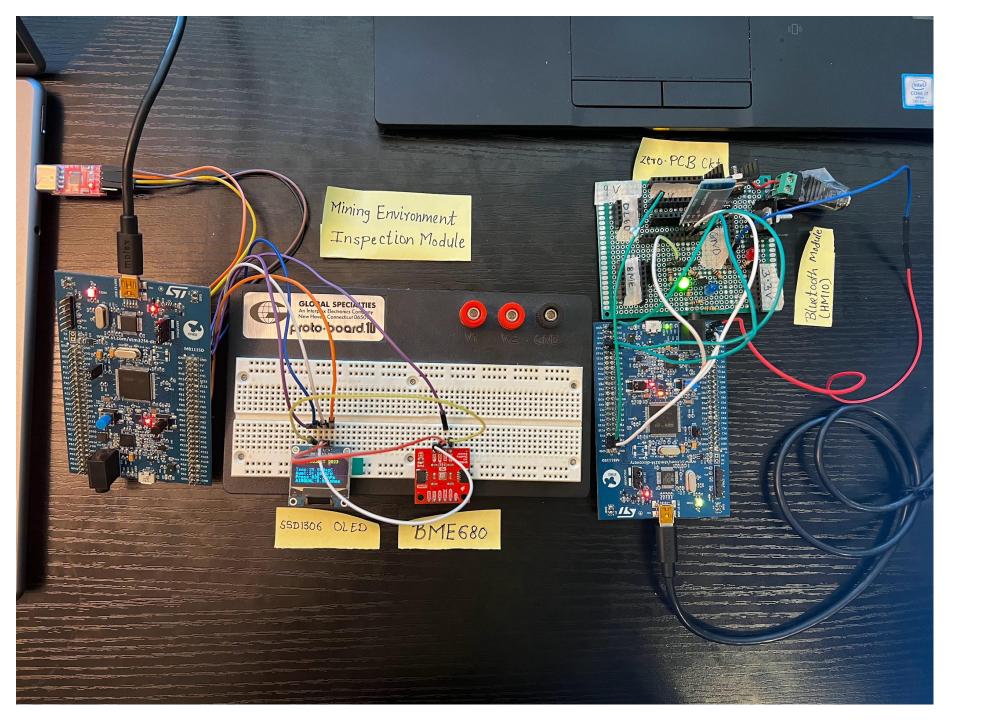
Block Diagram





Data Flow Diagram





Be Boulder.

Key Learnings

- Communication Protocols:
 - •12C
 - SPI
 - UART
- State machine Implementation
- Firmware Development and Integration
- Unit Testing & Integration Testing
- Hardware Design & PCB Designing
- SD Card Configuration over SPI
- Hardware Configuration via Bluetooth



THANK YOU!

