

**Arseny
Izotov**

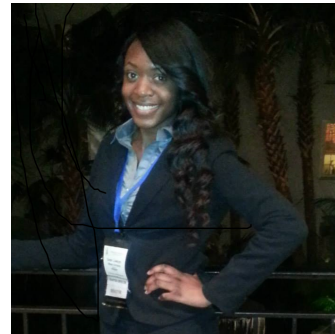


**Alden
Michaels**



Intel-E-Ds

**Justin
Lad**

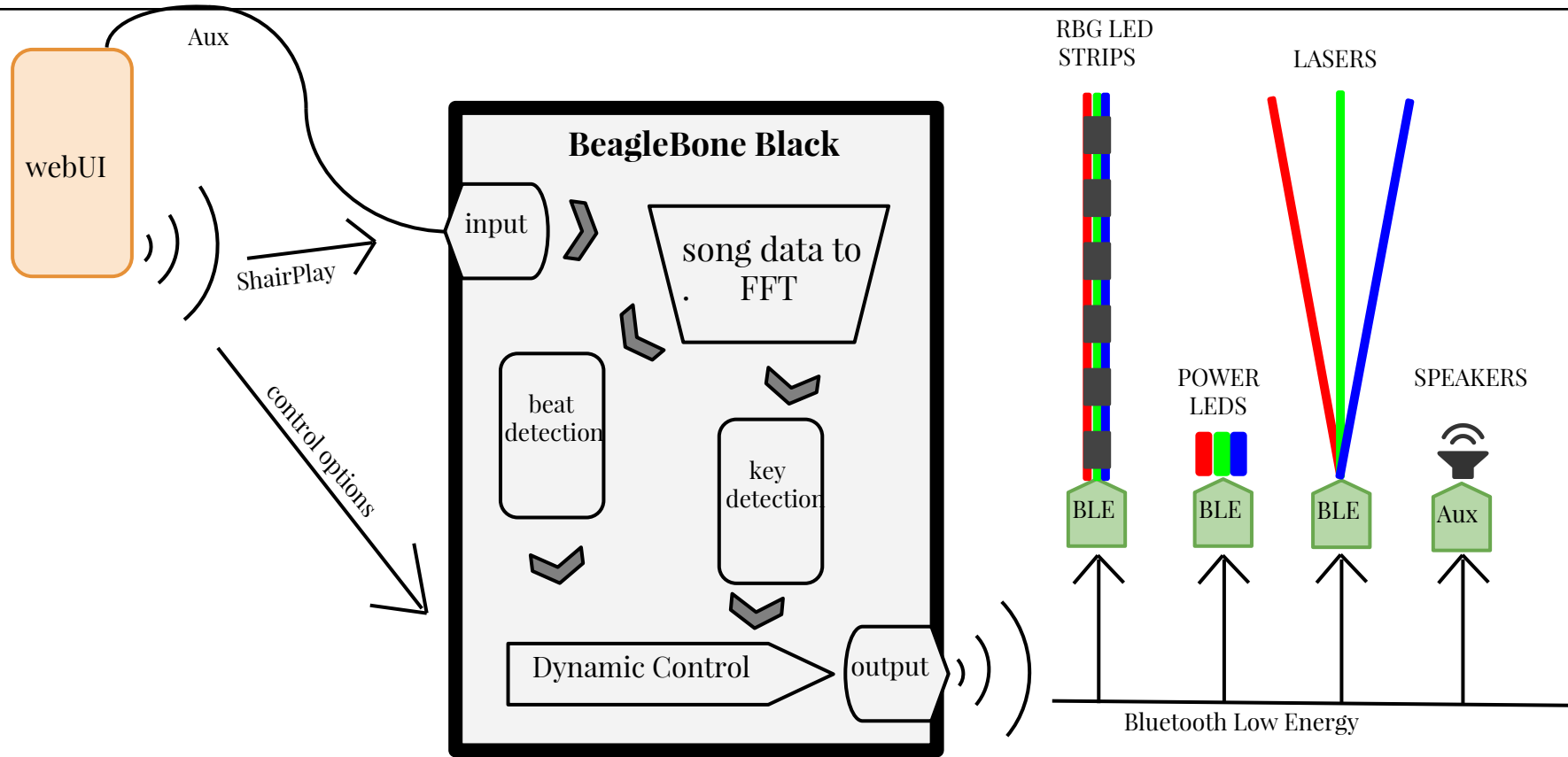


**Sade
Luwoye**

Recap: The IntelL-E-Ds Vision

- LED Music Controller
 - Control LEDs with webUI “remote”
 - Live Stream Play
 - Auxiliary
 - ShairPlay
 - Calculate Song Characteristics
 - BPM, Key
 - Control LEDs to vibe with song
- Final Product Price < \$200

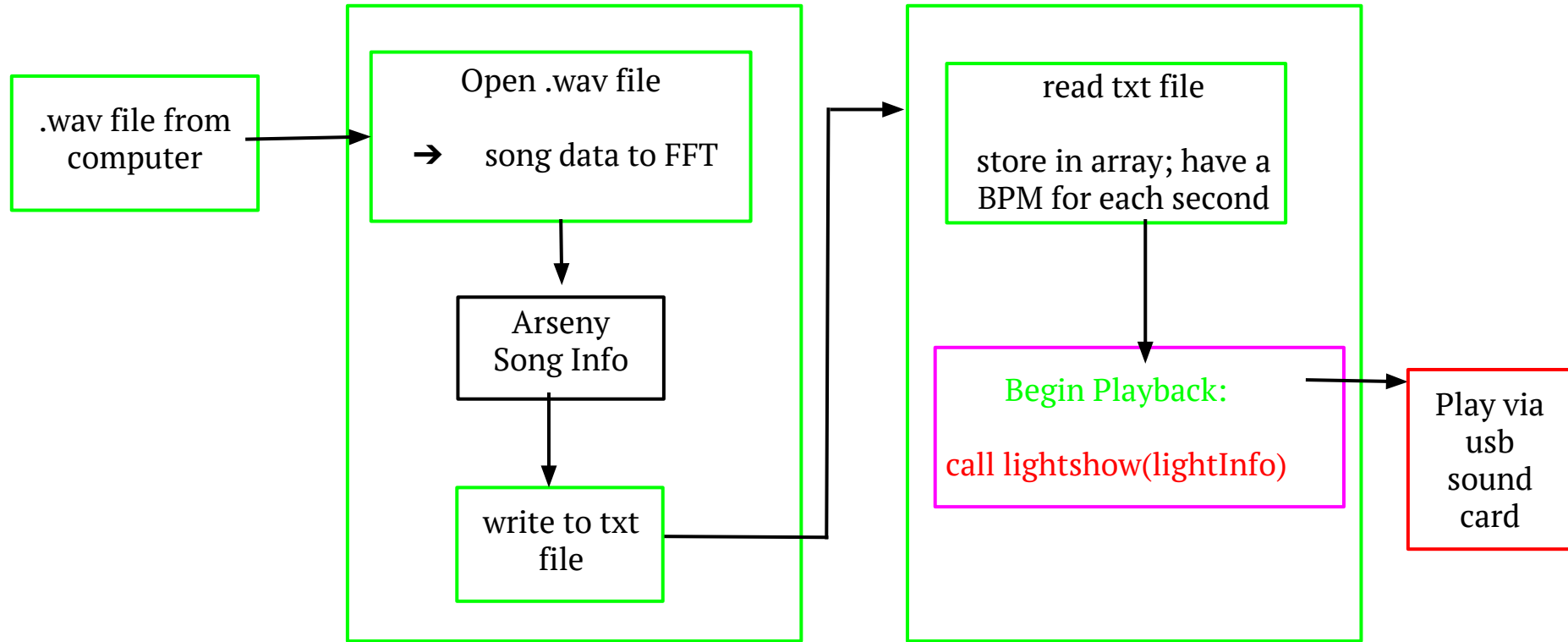
The Big Picture



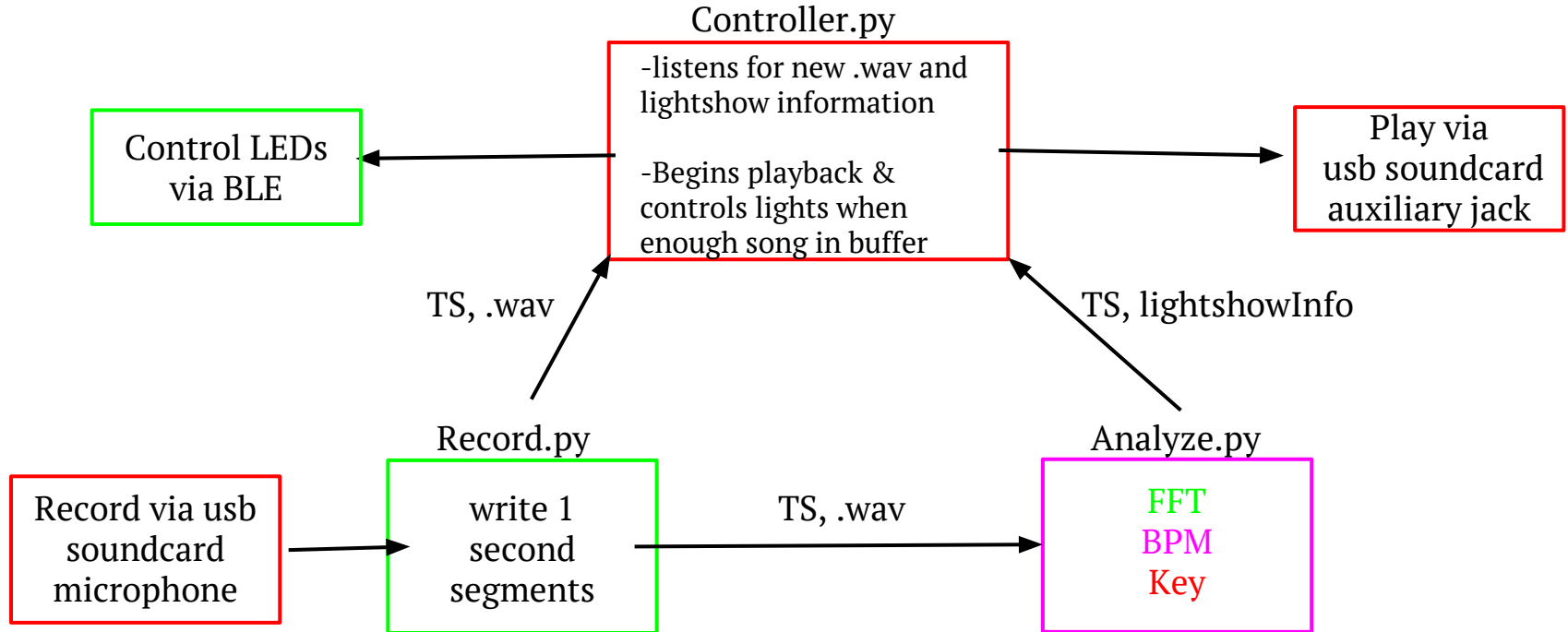
Proposed MDR Deliverables

- Send song to beaglebone via shareplay
- WebUI to control lights
- Convert .wav file to FFT array
- Calculate BPM for every time of song
- Lights blink to beat of song

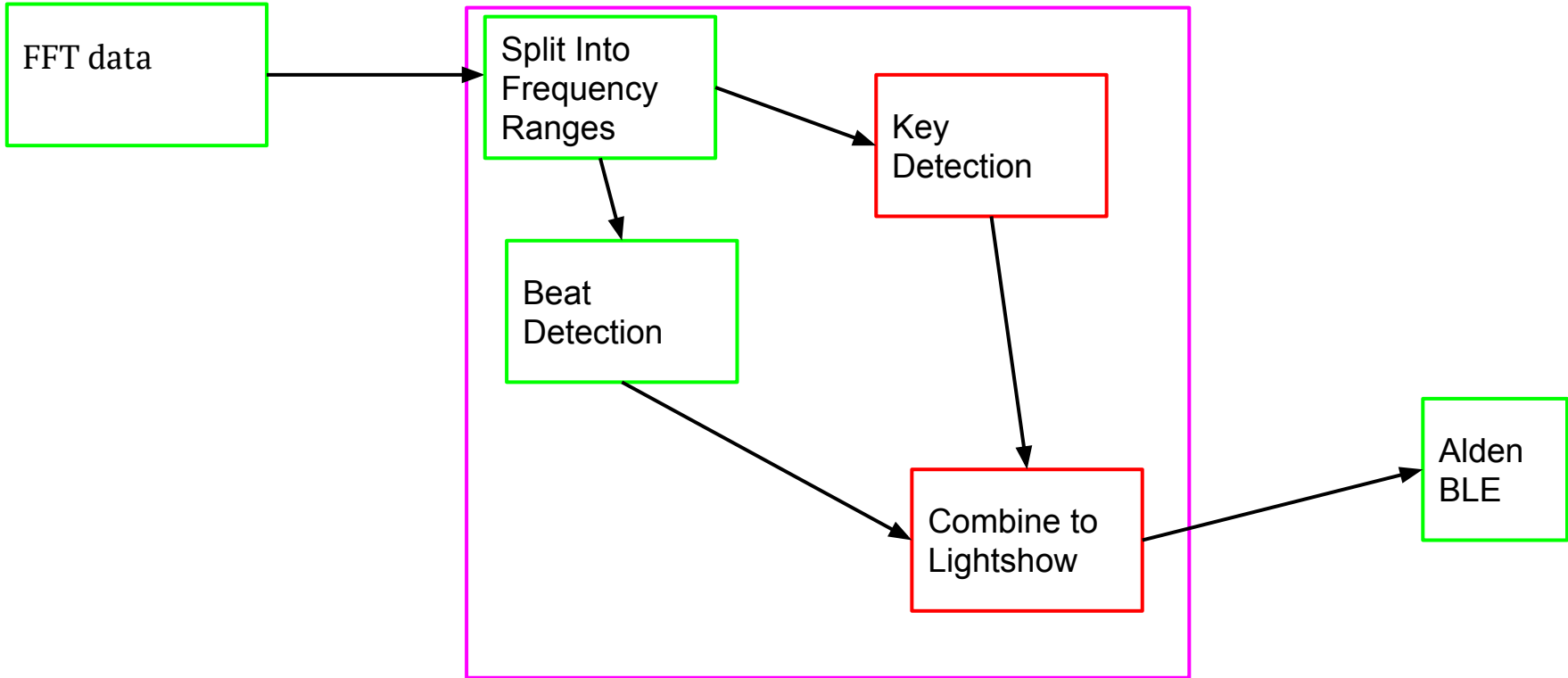
BLOCK 2: File on Computer Version



BLOCK 2: Live Stream

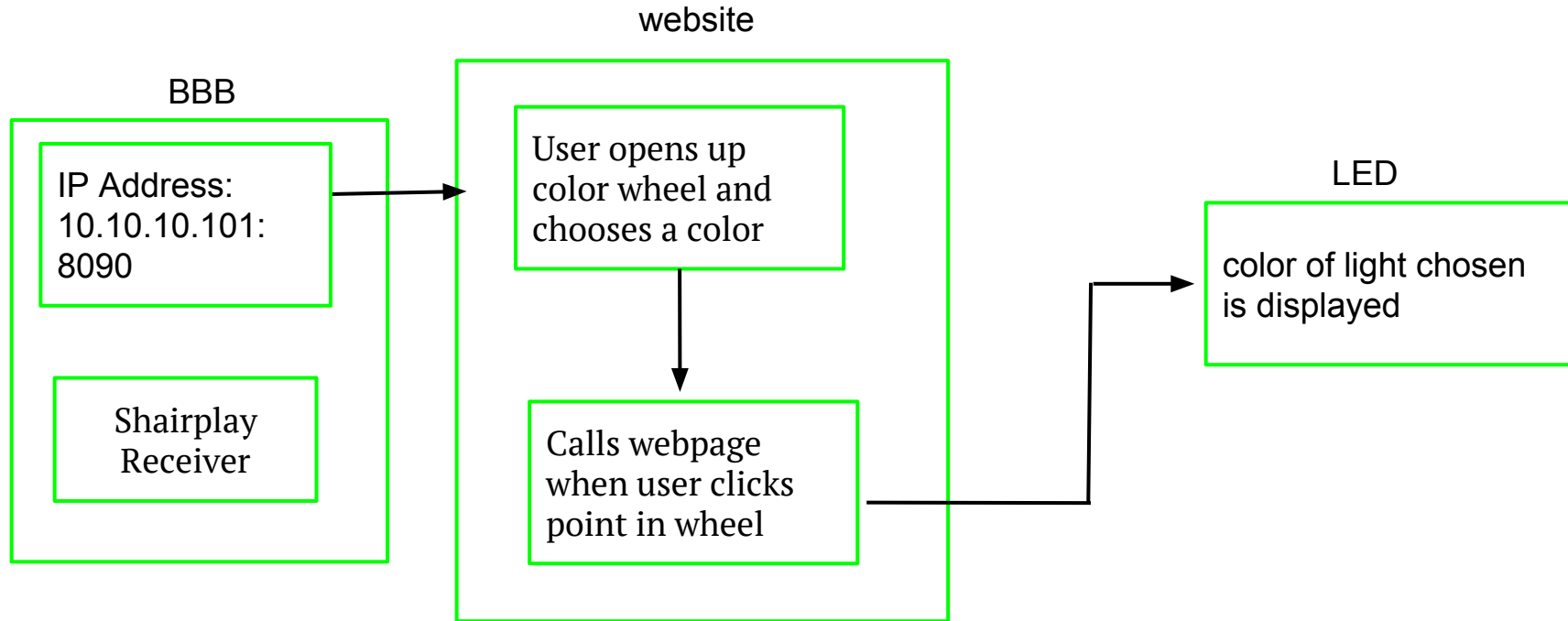


BLOCK 3: Analyze & Lightify

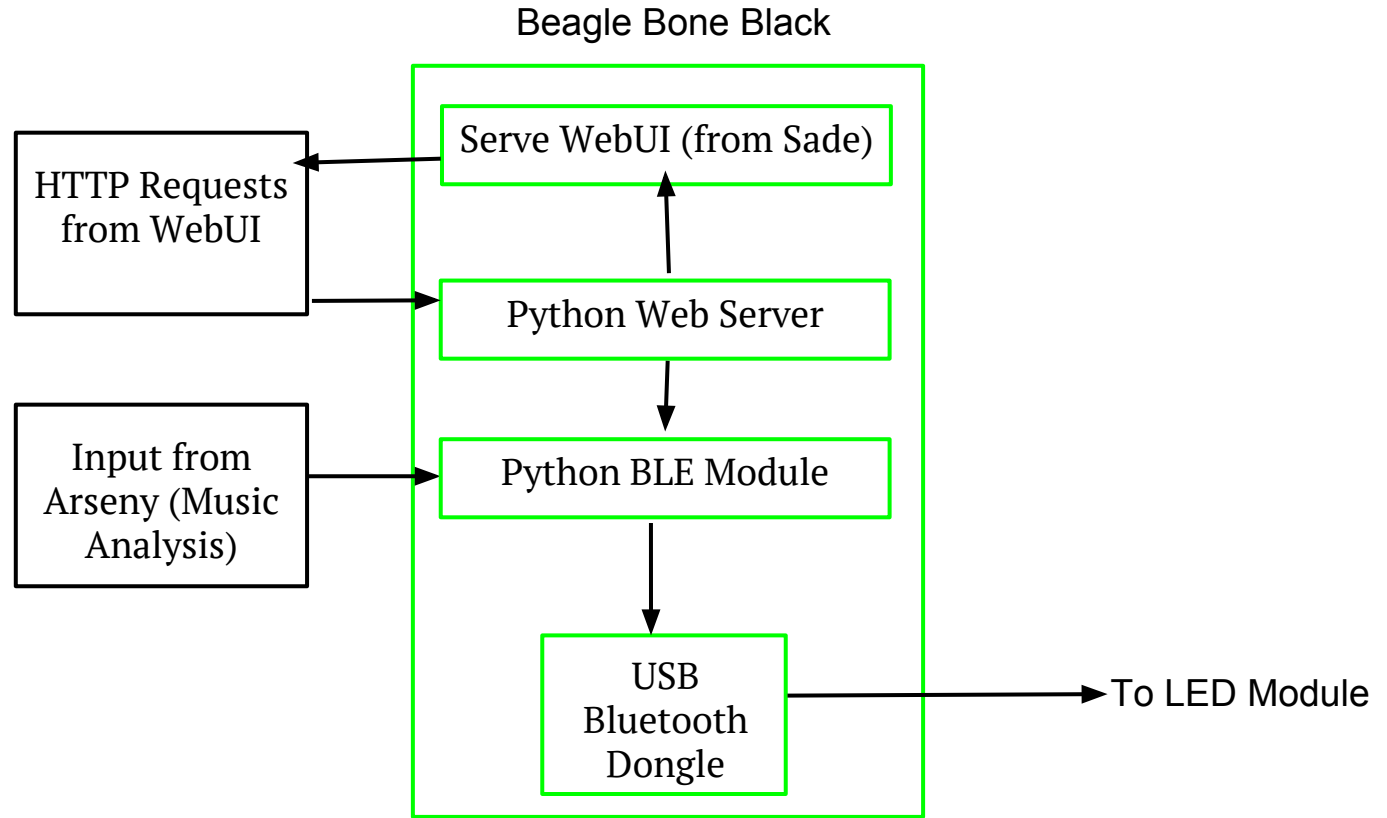


Demonstration

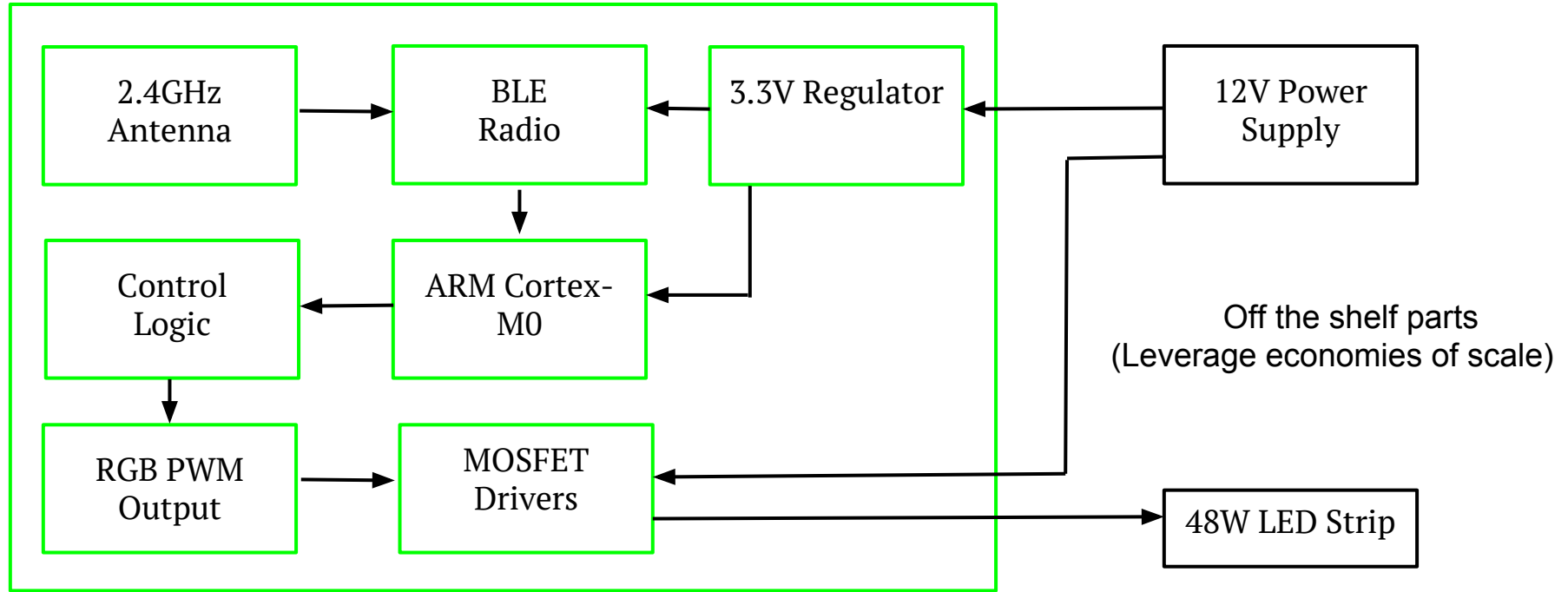
BLOCK 1: WebUI Interface



Alden's Beagle Bone Black Block



Alden's LED Module Block

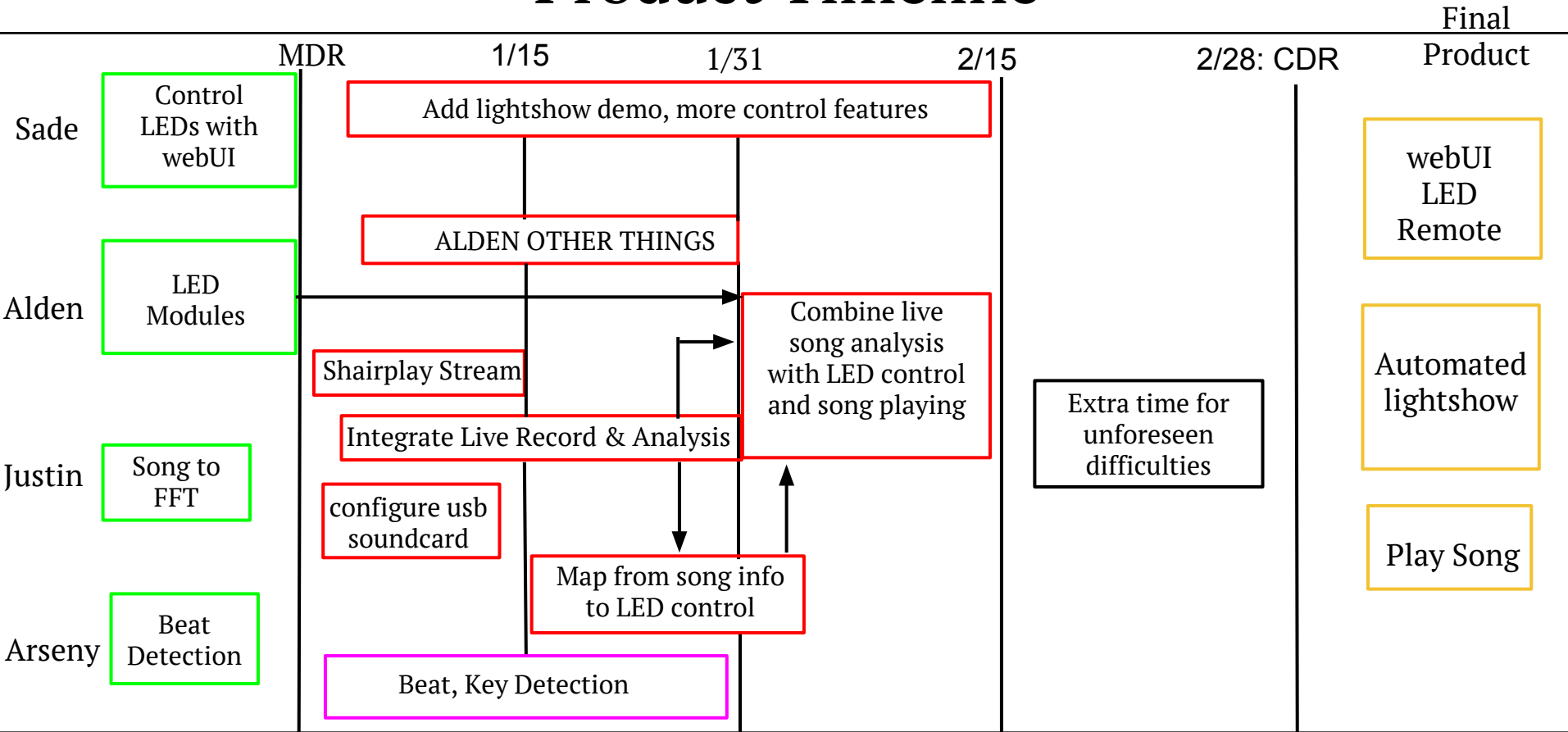


Demonstration

Proposed CDR Deliverables

- Complete subsystems
 - Live stream functional
 - Auxiliary
 - Shairplay
 - Key Detection
- Integrate Systems
 - Coordinate live recording and analysis
 - Coordinate LED control with song playing
 - Additional webUI functionality
 - Couple lightshow modes
 - Buttons for specific colors

Product Timeline



Questions?