**FYDP Project Proposal**

**Group #2**

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**Need Statement**

Current video recording devices record a lot of undesired video footage. A method to only record desired video footage is required.

**Problem Statement**

Design and build a device to only record desired video footage.

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| **Objectives** | **Constraints** |
| * Able to mount to a GoPro * Last up to 6 hours of use * Wireless control * Cloud upload * Cost less than $60 CDN * Water proof * Physical button gives user encouraging feedback | * Must interface with generic digital/video cameras * Must be smaller than 9.5 x 2.5 x 6.0 cm * Must have a physical button to operate device * Must be able to endure damage from drop test of 1 m |

**Design Criteria:**

* Mountability
* Interoperability
* User Friendliness
* Size [cm3]
* Battery Life [hr]
* Cost [$]
* Durability [m]
* Water Resistivity [m]