

# Module 1 User Identification and Requirements Specification

**Product:**

Desktop Launcher

**Product Description:**

This product is a desk toy that allows the user to aim and launch small projectiles while playing sound effects. The attached camera would allow for better aiming and act as a desk camera that can be set to upload images at a regular interval to a database. Finally, the user can view the uploaded images at their convenience.

**Target Market:**

The target market for this product is: young adults and technology enthusiasts of any age.

**List of constraints imposed by the target market:**

1. Price - Must fit in the price range of a toy for the average young adult.
2. Size - Must be small enough to fit on a desk without taking up too much space.
3. Ease of Use - The interface should be simple and intuitive to use.
4. Various Modes - The device must provide different features to keep different users entertained.

**Product Requirements:**

1. Easy to use controls on the touchscreen to control the aiming (left, right, up, and down) and shooting mechanism.
2. Display real-time camera feed on screen with an overlaid aiming reticle.
3. Sounds associated with various user inputs for improved usability and entertainment.
4. Ability to turn on security mode in which the camera uploads images to an online database via WiFi on an interval.
5. Ability to turn on autonomous mode in which the turret tracks a bright object (red ball).