

# Playground stuff

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## 1 System Diagram

This diagram makes no sense as right now I'm using it as a template for real diagrams. I'll be sure to clean it up and link it to better explanations on how to create these diagrams.

NOTES:

\* Here you would add notes

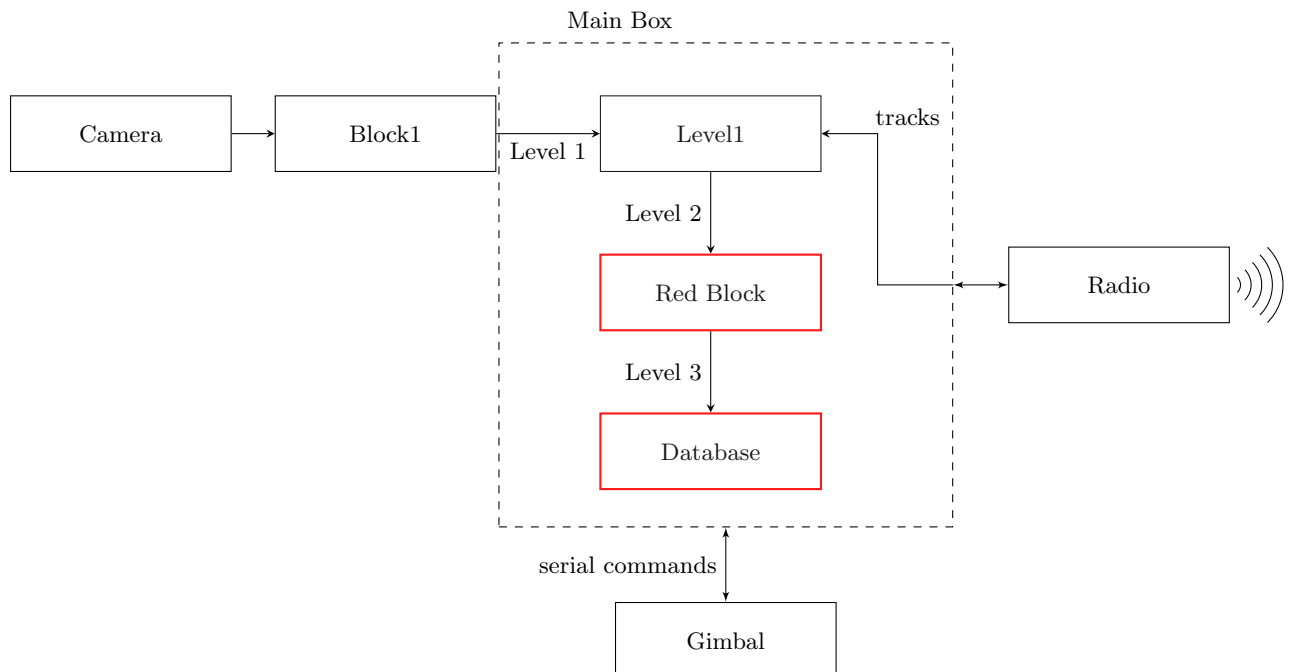
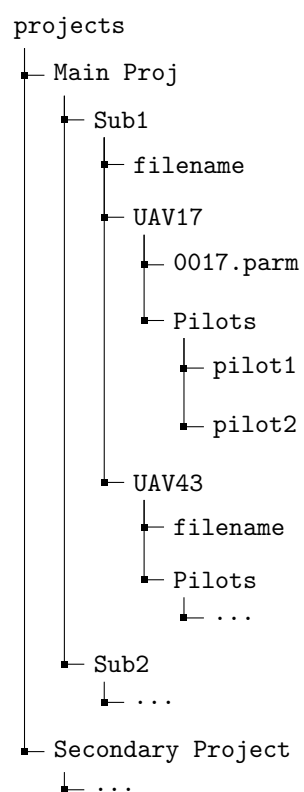


Fig. 1: Short term system diagram.

## 2 file diagram



## 3 math

$$v_{out} = \begin{bmatrix} R_{odom} & \begin{bmatrix} x_{odom} \\ y_{odom} \\ z_{odom} \end{bmatrix} \\ 0 & 1 \end{bmatrix} * \begin{bmatrix} R_{trans} & \begin{bmatrix} x_{trans} \\ y_{trans} \\ z_{trans} \end{bmatrix} \\ 0 & 1 \end{bmatrix} * \begin{bmatrix} x_{vin} \\ y_{vin} \\ z_{vin} \\ 1 \end{bmatrix}$$

(1)