Tetris Puzzle Solver

James Fang, Miyuki Weldon, and Jonathan Lee

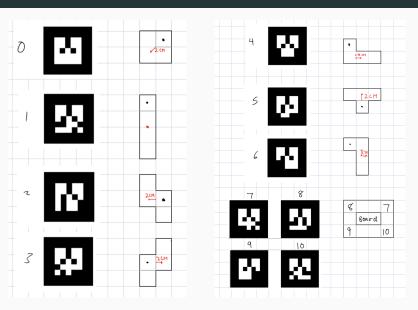
December 9, 2018

EECS 106A at UC Berkeley

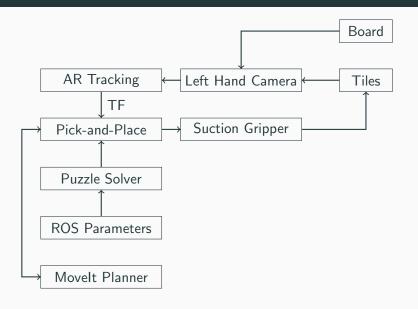
Goals

- Develop puzzle board and pieces.
- Safely pick pieces from a table.
- Place pieces flush in a frame.

Design



Design



Challenges

- Identifying tiles without AR tags (glare).
- Unstable AR marker estimates. Unknown table height.
- Tile types share an AR marker ID.
- Bad grasps (depressions on tags).

Improvements

- Adding two AR markers per tile for greater pose stability.
- Placing tags away from the tile center-of-mass.
- Assigning unique AR tags.