Design for holding actual pieces:  
  
After doing research as a group, we decided that the easiest method for now would just be to stack the piece in small stack in a tray or something similar, and then have it pick up pieces from those stacks:  
  
[https://www.amazon.com/Row-Connect-Board-Game-Kids/dp/B078GMGT4M](https://www.amazon.com/Row-Connect-Board-Game-Kids/dp/B078GMGT4M/ref=sr_1_1?crid=YSA4GNWCDSCP&dib=eyJ2IjoiMSJ9.Q9sMEblF8qrdpUTWhsdTRU9kWNFROOr6tQfpdinHiXDscqUixk0rVLrjpSUWpVhSTmRjy7Ki45G3c1uYTm-va-rlO5v6O2VVMil4p_zw9N4yKb-O5i83E57lHllgWuFaXqMuX5ZwalxscSskY1t-_6cYZV0rxLfAKQ-qvCm7wDUZGmUa5V6DjL0uULGTeoOdImw0lm1akaCKhiChev7NeCM58LyEyif5WrskC-mQo4Z6fegbmvuP6z7vQTBQDdefkbdOlj9QKNuhSNKlrIsH0m2NLkBJeugzli9fcAfhBiYcz-lmaechO0J6SWkmmXtOXz8U61YCtuq30wOECDGkKdhjZWt2A54RC_zqtbkD6luinmryWcLa-W8LDY92a1luebPpwmt7D-YbbzAnL5vj62vdlfDFh4JrDoZrjHxBQAk6Z6PqhZkVb1_mlXDga9fV.sGwCuFQdygtTl9eRSHHfiBuSc0ozdPBOhgKQoqGnj6w&dib_tag=se&keywords=connect+4+piece+holder&qid=1740954579&sprefix=%2Caps%2C108&sr=8-1)

Something like this, which would hold the pieces in a centralized place where the robot would be able to pick it up from

Design for top of board:  
  
I think that there was some concern over if we needed to augment the top of the connect 4 board in order to make it easier for the robot to drop pieces into it.  
  
We came to a consensus that there is 2 options that we could go forward with:

1. We would have the robot stick part of the piece into the board before dropping it that way we ensure that it does not move around when the robot releases the connect 4 piece:  
     
   
2. Another idea would be to create a funnel-like structure at the top of the board so that even if the piece does move around a bit when the robot drops it, it would still slide into the space that the robot was trying to insert the piece into



Top view:

