Pharaoh's Curse Poly Rabbotics 7042

Backstory

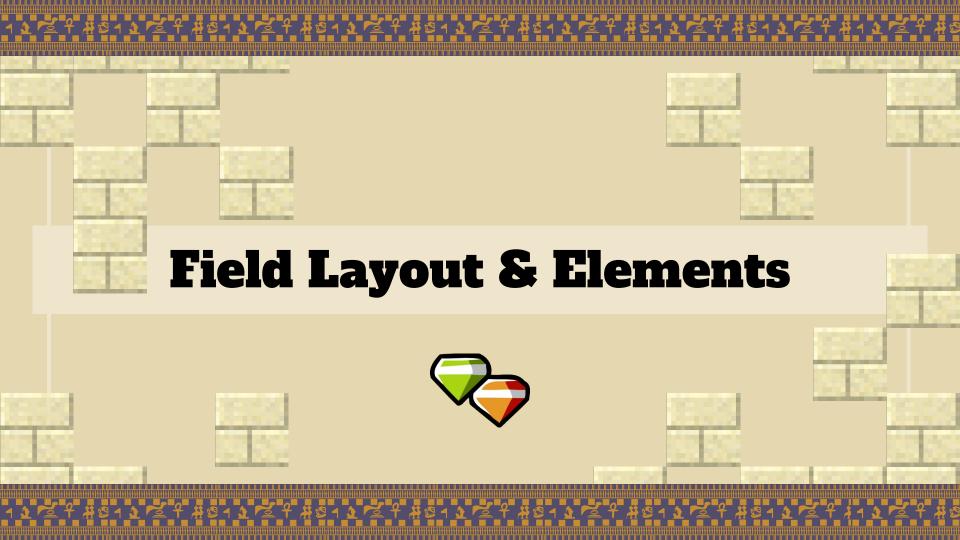


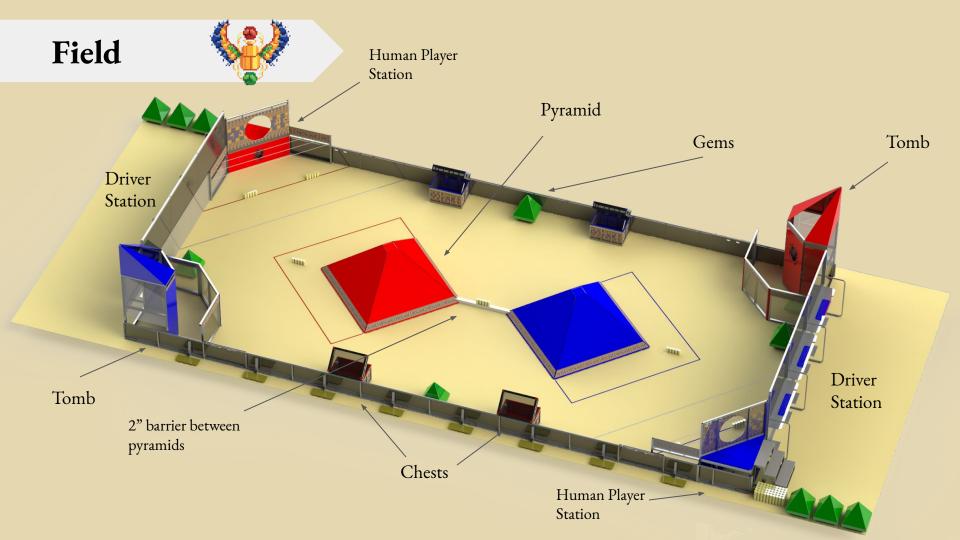
In "Pharaoh's Curse", robots rescue archaeologists from a cursed pyramid by returning trapped treasure. Gems and coins are collected from human player stations in order to further advance. Robots must race to gather coins and gems to rescue the archaeologists from the dangers of the desert before it is too late!











Coins





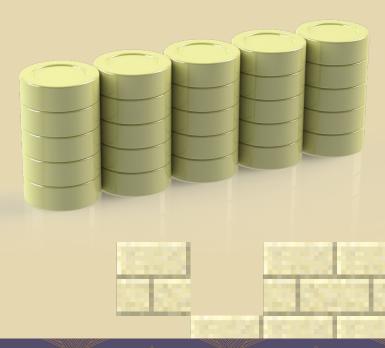
Hockey pucks 1 in. thick by a 3 in. diameter



Loaded into field 25 coins at a time



Scoring Location: Chests



Chests



Located in the center of field's sides



Two chests per team

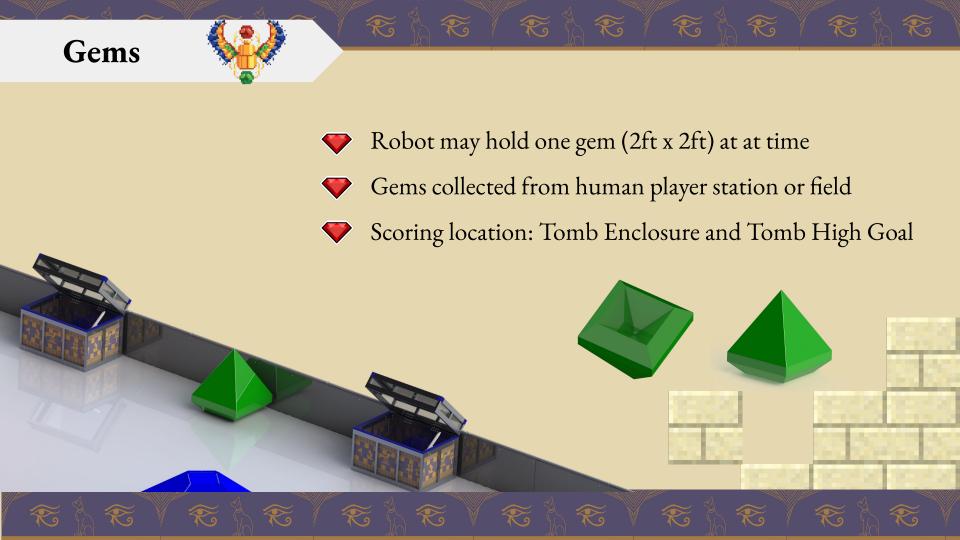


9 gems scored in the tomb to unlock the second chest during the tele-op period

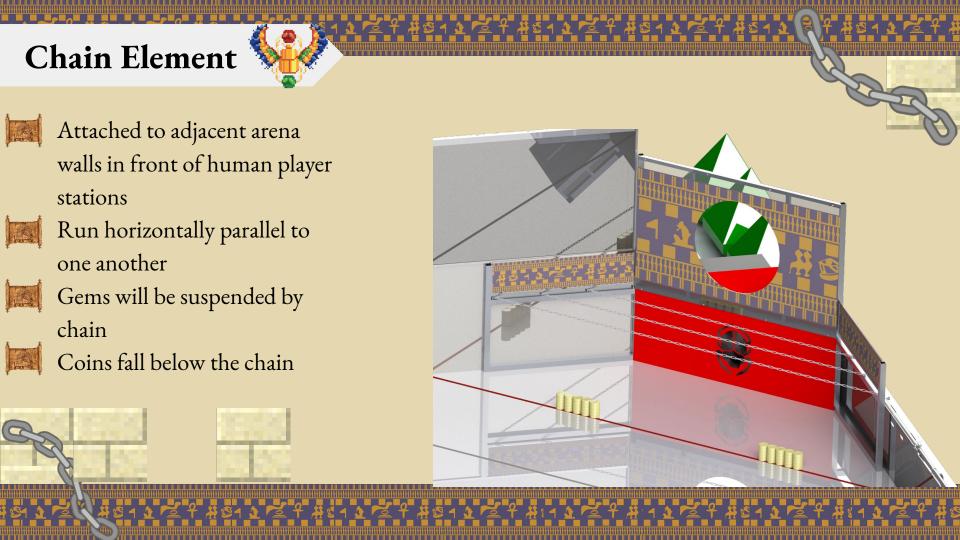


Motorized lid will open/close, controlled by the field







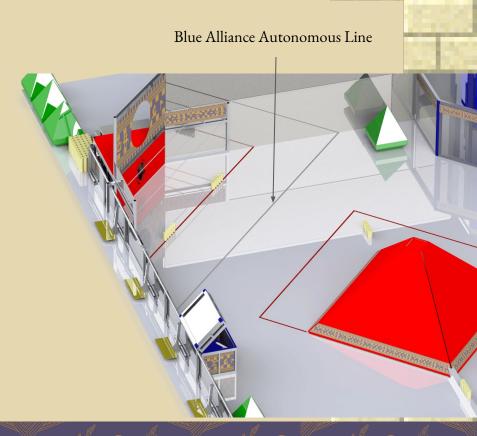




Autonomous



- Robots are preloaded with up to 40 coins and 1 gem
- Robots start on their autonomous line
- All chests unlocked during autonomous
- Robots score coins in chests and gems in tombs
- All points x2 during teleop during auto.



Tele-op





Human Player Station

- Pick up Gems
- Collect Coins

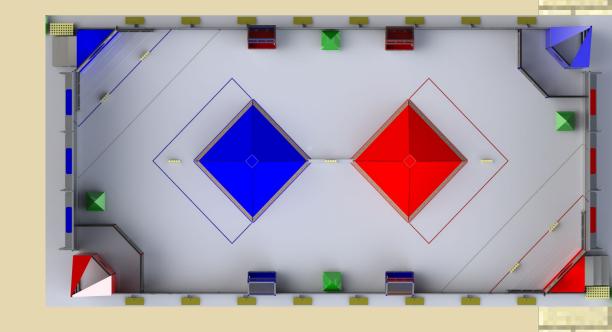


Score Coins in Chests

One chest will close at the beginning of tele-op



Score Gems in Tomb



Endgame





Final 30 seconds



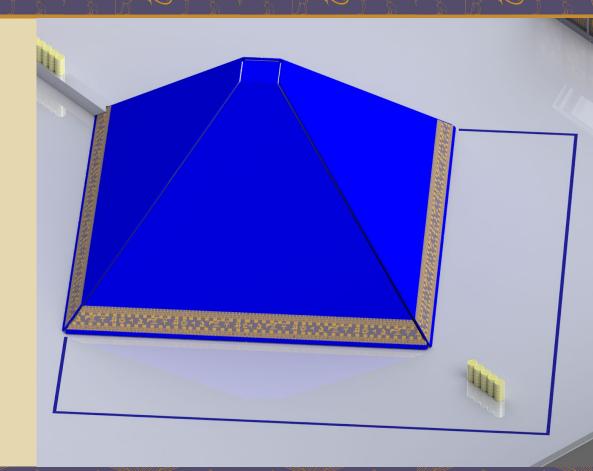
Pyramid

- Climb the pyramid slopes
- Assist others in climbing the pyramid



Pyramid Zone

Parking in the zone can also score points





Point System Breakdown



Coins

- Autonomous Period = 2 Points each
- Teleop = 1 Point each



Gem

- Autonomous Period = 50 Points each
- Teleop = 25 Points each



Climbing

- Robot in PYRAMID ZONE when match ends = 15 points
- Robot fully supported by PYRAMID
 when the match ends = 75 Points

Action	Point Value (tele-op period)	Point Value (auto period)
COIN Scored into CHEST	1 per COIN	2 per COIN
GEM Scored into TOMB	25 per GEM	50 per GEM
GEM scored inside HIGH GOAL	50 per GEM after 225 COINS have been scored	50 per GEM
Robot parked in the PYRAMID ZONE at T=0	15	2
Robot Climbed	75	
Three Robots Climbed	1 Ranking Point	æ
Second CHEST unlocked and HIGH GOAL double points enabled	1 Ranking Point	-
Match Won	2 Ranking Points	of .
Match Tied	1 Ranking Point	-
Match Lost	-	<u>e</u>

Ranking points



4 Possible Ranking Points in a match



Win Match = 2 Ranking Points



Tie match = 1 Ranking Point



Lose Match = 0 Ranking Points

Bonus Ranking Points:



Second Chest Unlocked & High Goal Double Points activated= 1 Ranking Point

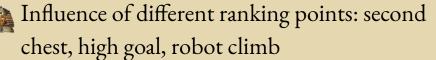


Three Robot Climbed = 1 Ranking Point

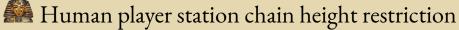
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Robot Climbed	75	5
Three Robots Climbed	1 Ranking Point	æ
Second CHEST unlocked and HIGH GOAL double points enabled	1 Ranking Point	0
Match Won	2 Ranking Points	35
Match Tied	1 Ranking Point	
Match Lost	-	2

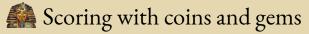
Design Diversity

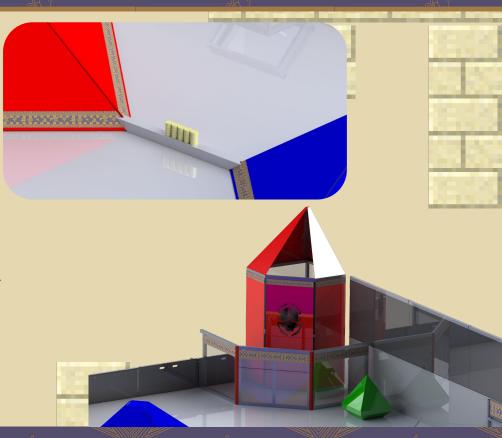
















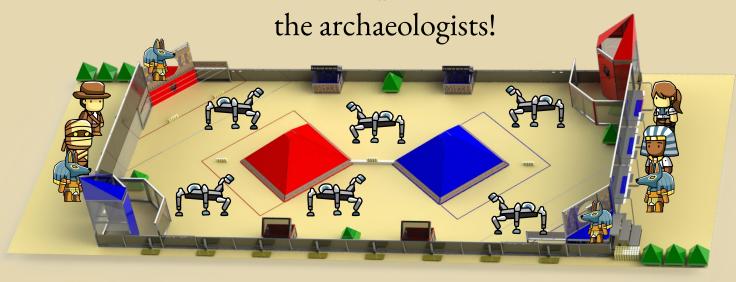








The alliance that scores the most points wins the match and rescues





Thank you for Listening!

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