PRODUCT NAME	THEME	SUBMITTED BY
SEMI-AUTONOMOUS HARVESTER	☑ SELF-SUFFICIENCY ☐ FUTURISTIC SCIENCE	**Tom Quinn**

BOARD LAYOUT (MAX SIZE 18 x 7)

○ LEFT
○ HARVEST
○ RIGHT

PRODUCT VISUALIZATION
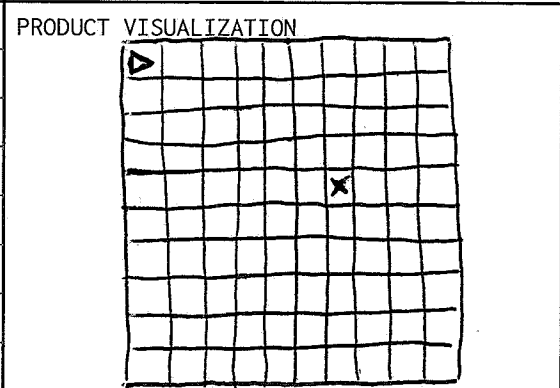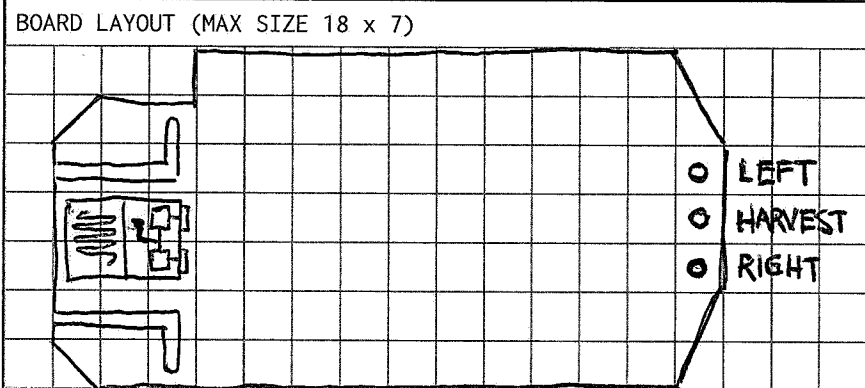
NOTES

This device controls a vehicle on "tank" treads. It starts at position (0,0) pointed in the (1,0) direction. It receives (x,y) XBus packets over radio and must navigate itself to those coordinates and activate its harvesting tool. To move the vehicle forward, set the power of both treads to 100. To turn left, set only the right tread to 100. To turn right, set only the left tread to 100. It must turn as little as possible, preferring left turns where otherwise equal.

INPUT/OUTPUT	TYPE	TIMING DIAGRAM
INPUT	**XBUS**	
OUTPUT (left tread)	**SIMPLE**	
OUTPUT (right tread)	**SIMPLE**	
OUTPUT (harvester)	**SIMPLE**	