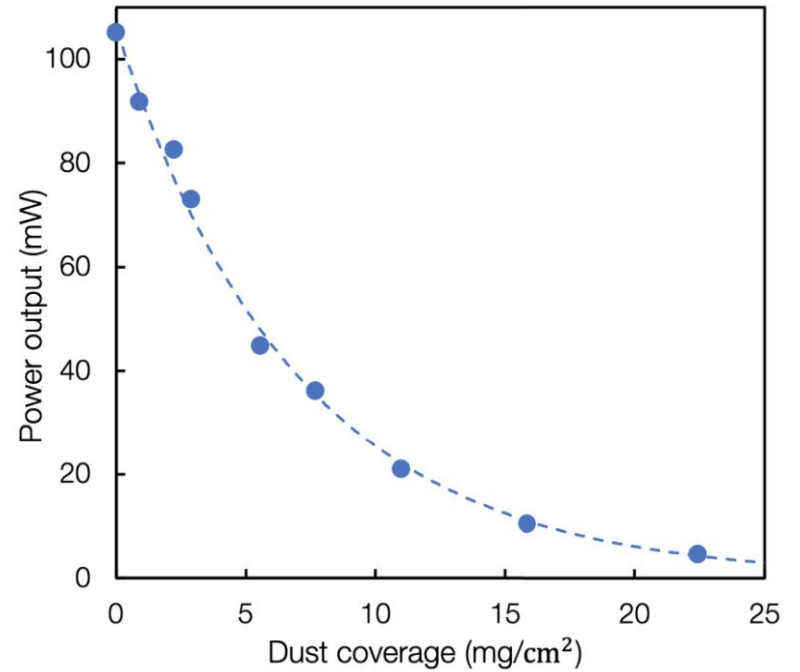


Figure: Annual soiling loss

Over 35%
Efficiency loss



Bird droppings

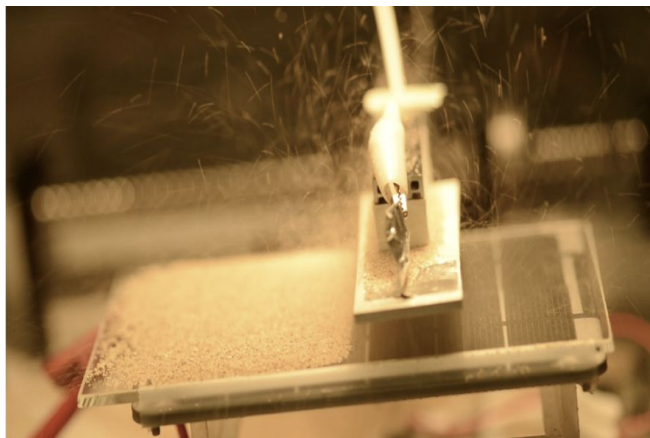
Dust, Algae

Cementation

Snow



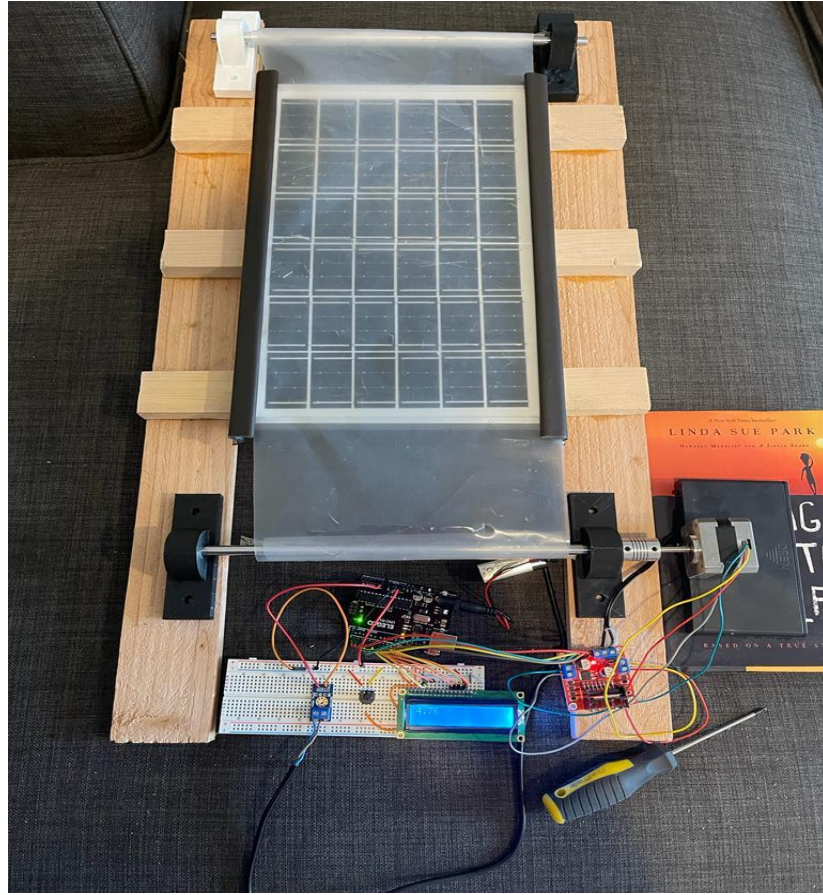
Manual cleaning



Electrostatic cleaning

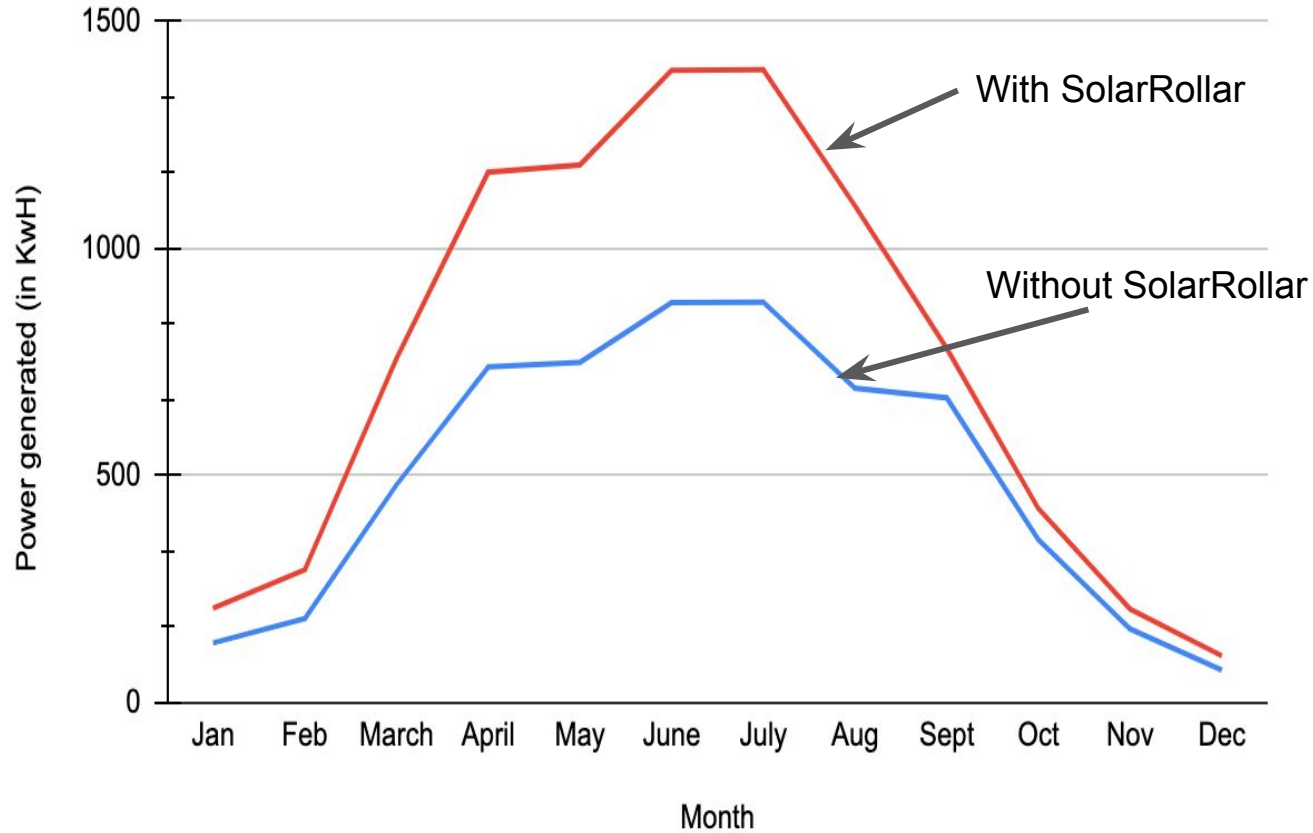


Robotic: Water based



Protective Sheet Material	Thickness (in mm)	Sunny	Recyclable	Melting Point	Flexible	Cost (per kg)	Voltage
None		Yes					22.8
Acrylic		Yes	No	320°F	X	\$2.2	22.4
PolyCarbonate		Yes	Yes	510°F	X	\$2.6	22.1
PET	0.15	Yes	Yes	500°F	TRUE	\$0.70	22.5
PET	0.01	Yes	Yes	500°F	TRUE	\$0.65	22.65
PET	0.04	Yes	Yes	500°F	TRUE	\$0.65	22.7

Annual energy generated



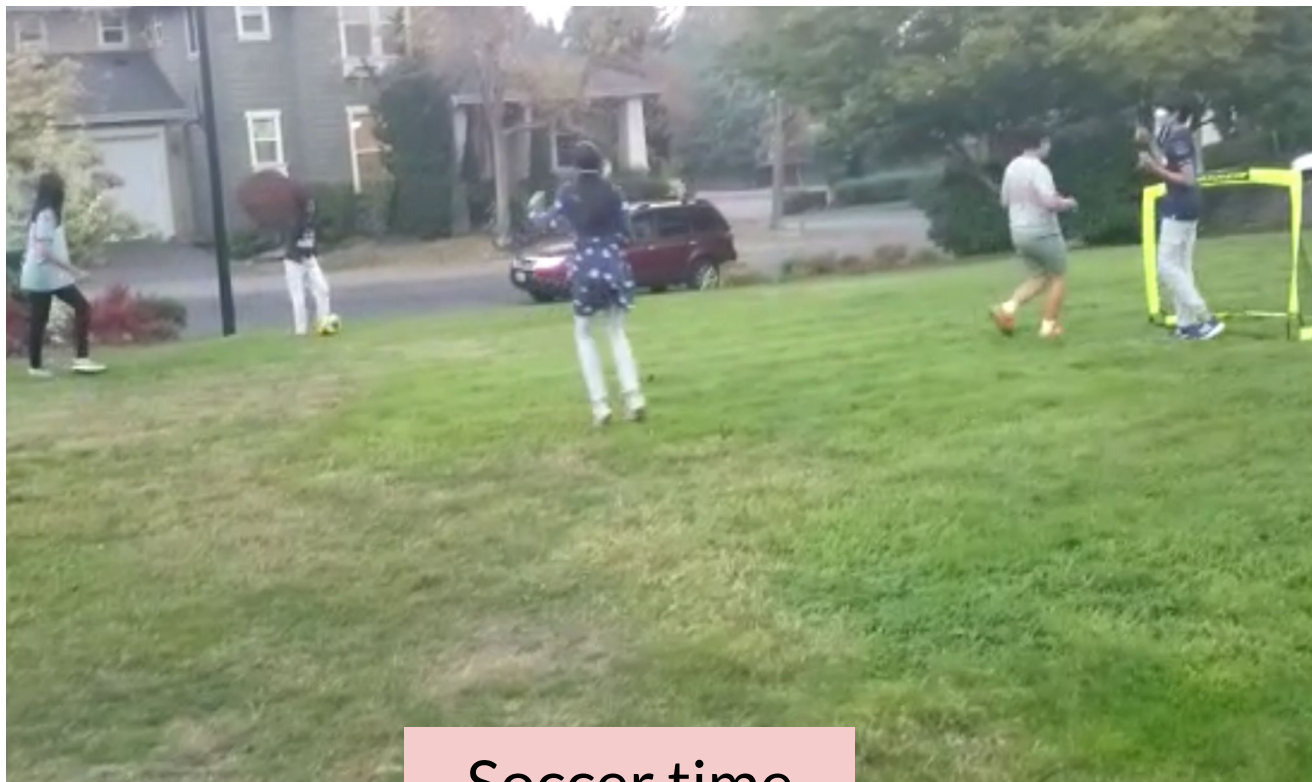
30% more power
generated with
SolarRollar



Wild Horse Solar & Wind Farm



Corn Maze



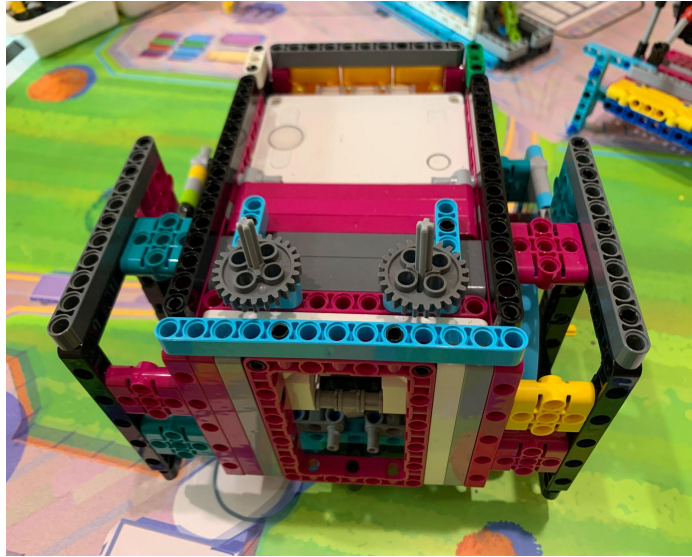
Soccer time



Foosball Tournaments

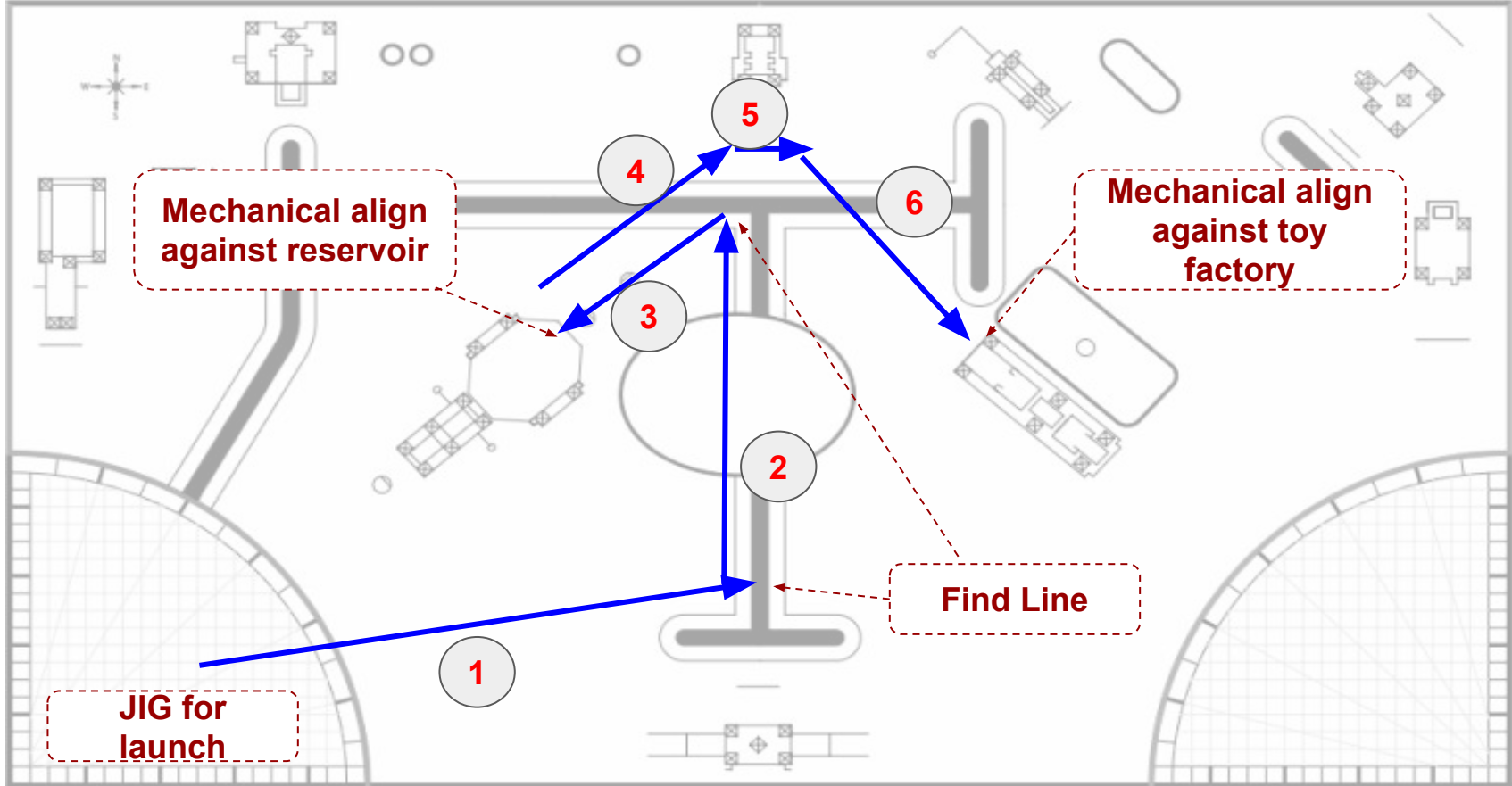
Our Robot

- Box robot
- 6 attachments
- 2 color sensors
- Gyro sensor
- 2 vertical medium motors



- Cabling beams
- Charging ports
- Cages around wheels

Example Run



Example attachment



Figure: Spinny

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The Answer to the Ultimate Question of Life, The
Universe, and Everything

Marvin

Our favorite Songs:
Marvin The
Paranoid Android -
A Side

Brain the size of a planet

Dont Panic
and carry
your towel

Towel Day



May 25th Towel day