

THE ROTATING GARDEN



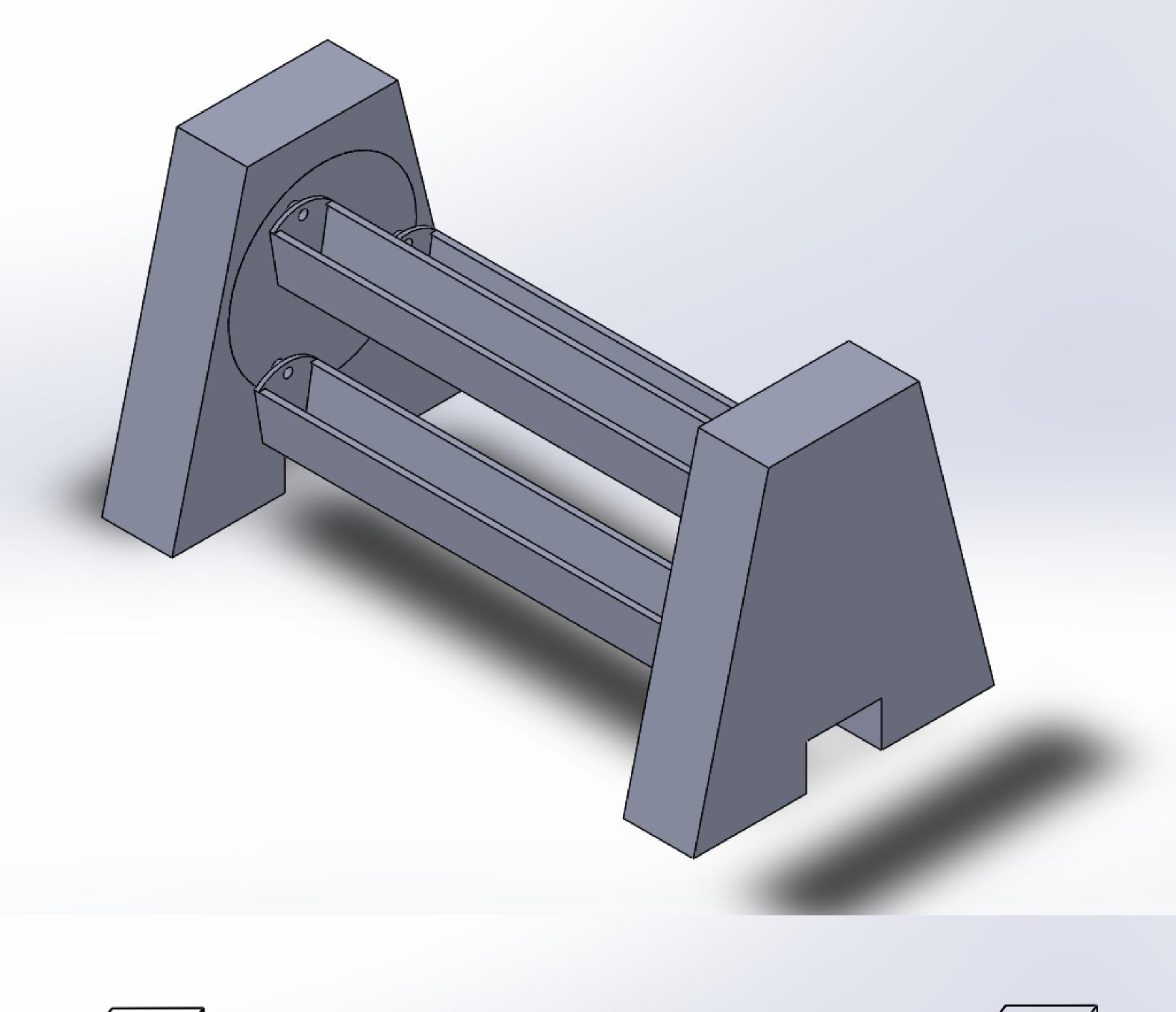
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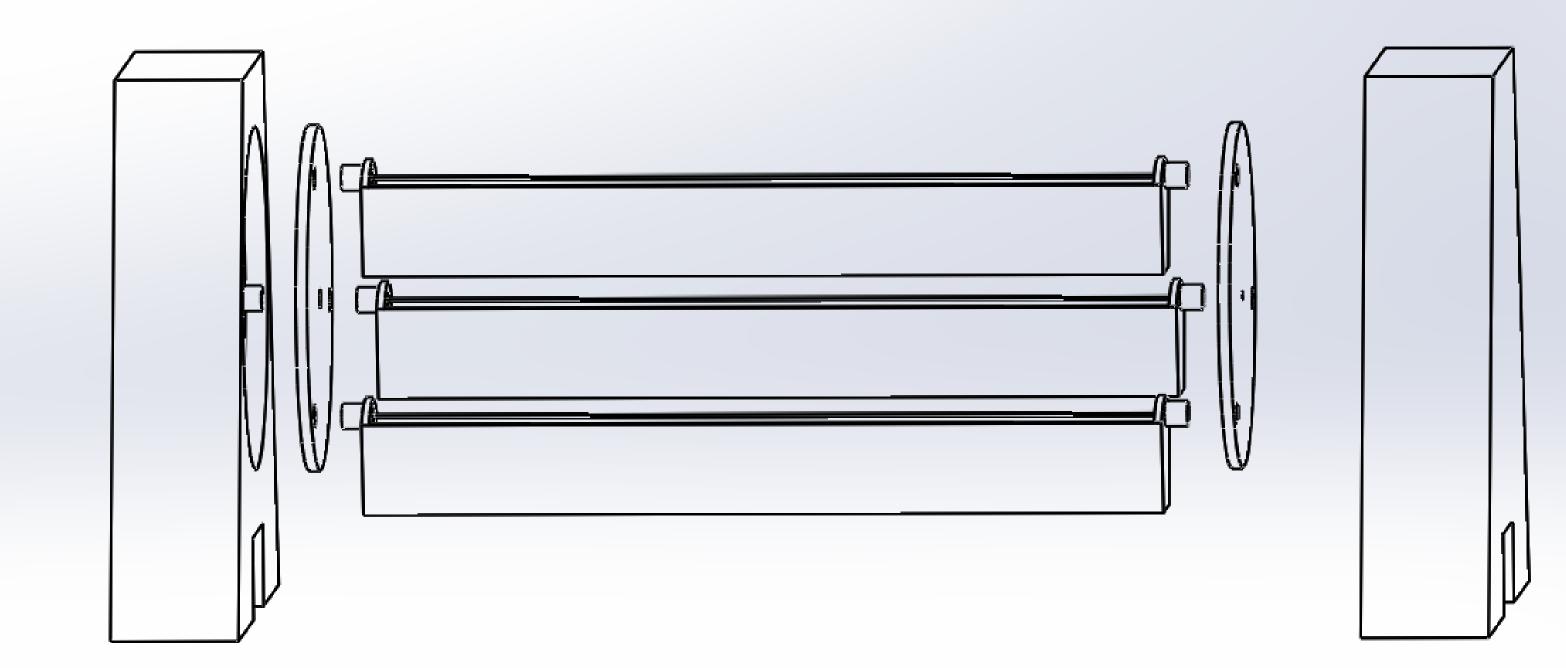
Benefits

- Safe
- Easy to use
- Increases serotonin
- Reduces risk of injury when doing an everyday task

Key Features

- > Sturdy wood material
- Rotating potting beds
- Self-watering drip irrigation
- > Grow lights





Risks						
Risk	Likelihood	Impact	Magnitude	Mitigation Plan		
Fire Risk	4	8	High	proper wiring		
decreased vision	7	7	High	provide a warning		
motor malfunction	3	8	Medium	warranty		
product defect	3	5	medium	warranty		
Electric Risk	5	9	High	ensure proper wiring and water proofing		

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Subsystems	Material	Cost of Material (Actual)	Cost of Material Cost of time and (Prototype) labor
Rotating			
Component	Arduino	\$36	\$23 1 hour - \$13
	Bread Board	\$20	\$10 1 hour - \$13
	Servo	\$35	\$6 0.5 hour - \$6.5
	Battery	\$20	\$10 1 hour - \$13
	Wires	\$16	\$8 2 hours - \$26
Potting Bed	Plywood Sheet (x2)	\$40	\$18 3 hours - \$39
	PVC Pipe	\$5	\$3
	Screws	\$6.30	\$2
End Frames	aluminum sheet 48'x 48'x 1/8' (x2) Plywood Sheet (x3)	\$174.76	\$27 4 hours - \$52
Irrigation	Connectors	\$3	\$10 2 hours- \$26
	Adaptor	\$1	\$2
	Plumbers Putty	\$6	\$7
	Valve	\$35	\$20
	Tubing	\$10	\$15
Electrical			
Component	16-gauge DC Wires	\$14	\$142 hours - \$26
	Lighting component	\$17	\$17 0.5 hours - \$6.5
	Resistors	\$10	\$10 0.5 hours - \$6.5
	Total:	\$449	\$206 \$227.50

"I find that it has become increasingly difficult to walk in my backyard"
-Kathleen Burtchaell

Problem statement

How can we solve the issue of deaths and injuries caused by accidents associated with everyday activities in late stages of life?

