



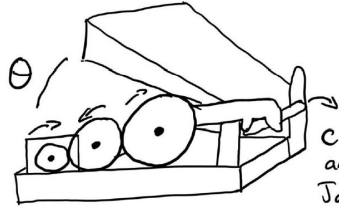
RECYCLING HOPPER MECHANISM

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Design a Mechanism for Depositing Recyclable Containers

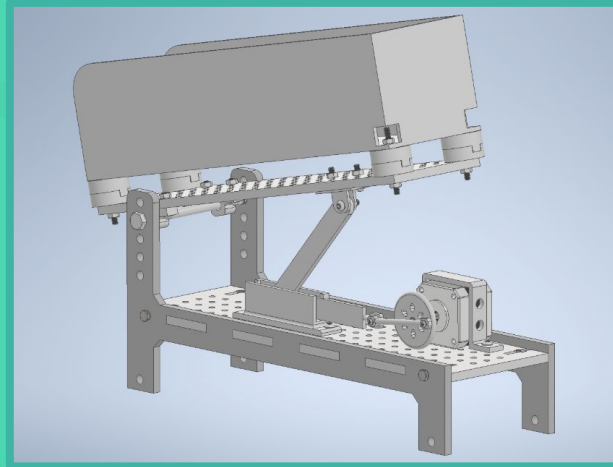
- Designed a physical mechanism using a rotary actuator and 3D printed parts that successfully attached and rotated a recycling hopper. It involved the transformation of rotational motion into linear motion, testing the designed parts within Autodesk Inventor.
- The mechanism was featured on the 2022 ENG-1P13 year end showcase that only 2% of teams are chosen for; being recognized as one of the best project work done for the school year. It was shown to those in attendance including special guests from the Dean's office.

ROTARY ACTUATOR



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Jan 13, 2022
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Initial concept sketches were created, then refined multiple times. Engineering drawings and measurements were completed to ensure hopper compatibility.



The components of the mechanism were all designed within AutoDesk Inventor, then placed into an assembly that included a model of the hopper that would be used. All components were then 3D Printed and assembled into its final design.

