QUADCOPTER MODIFICATION FOR GRABBING OBJECTS

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The use of quadcopters has increased dramatically over the past several years and are popular for aerial photography.

Quadcopters can fly over altitudes where humans cannot reach. It has high scopes in grabbing objects, and photography.

Many countries are deciding whether to use Quadcopters for delivering pizzas.
MY QUADCOPTER PROJECT

• My particular project is investigating an additional use for quadcopters by attaching a remotely grasping device to the quadcopter

• By attaching the arm, the quadcopter can grab and place objects from one place to another
QUADCOPTER GRABBING OBJECTS
STAGES IN THE PROJECT

• Stage 1 - Design the arm of the quadcopter in Solidworks
• Stage 2 - Buy parts according to the design
• Stage 3 - Assemble the parts
• Stage 4 - Test the arm
• Stage 5 - Attach the arm to the quadcopter
• Stage 6 - Test the arm when the quadcopter is flying
• The arm was designed in Solidworks
• There are 4 servomotors which allow the arm to rotate 360 degrees
• Each part was designed and assembled in Solidworks.
• Finally, the parts were tested in Solidworks
COST

- One main part of the project was the cost
- The estimated total cost for the project was $500
- However, once the parts were assembled; the total cost was $400
RESOURCES

- https://www.solidworks.com/
- http://www.crustcrawler.com/
- http://www.adafruit.com/products/1159?gclid=CKLSnaaQtcMCFRE1aQodEzYAYw
ANY QUESTIONS
THANK YOU FOR YOUR VALUABLE TIME