PORTFOLIO

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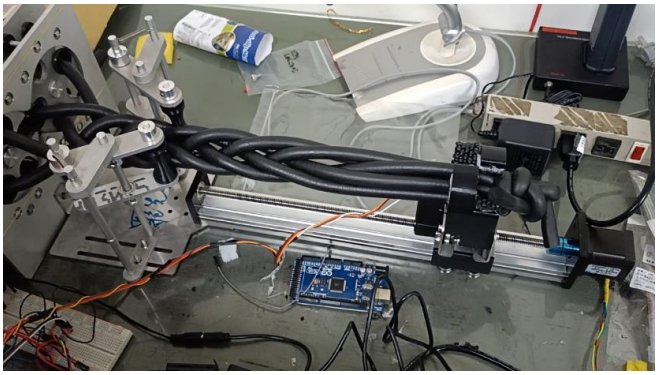
UCLA MSME

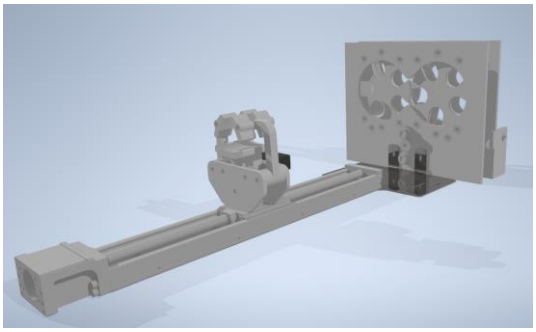
MONEY TREE BRAIDING MACHINE

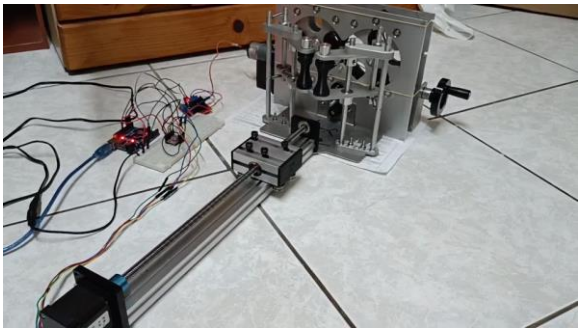
UNDERGRADUATE RESEARCH

Designed a go-through braiding mechanism that braids stiff money tree stems.



Implemented a system of Arduino, motor drivers and optical sensor to dynamically control braiding.



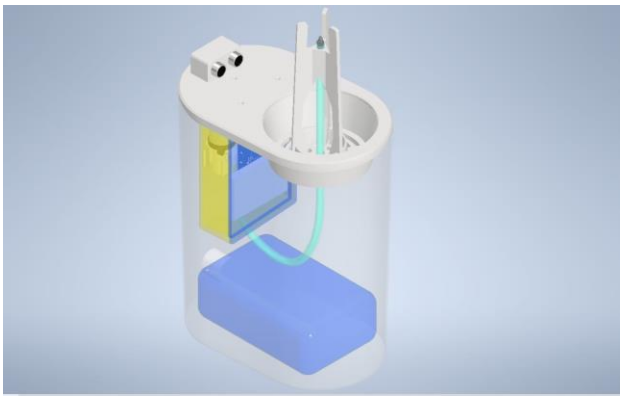


AUTOMATIC CUP CLEANING MACHINE

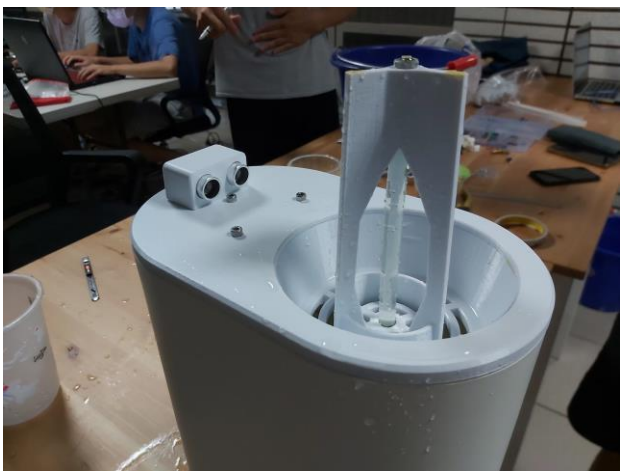
UNDERGRADUATE PROJECT

Designed a cup cleaner that can be deployed in public to ease garbage deposal.

Manufactured major parts using 3D printing.

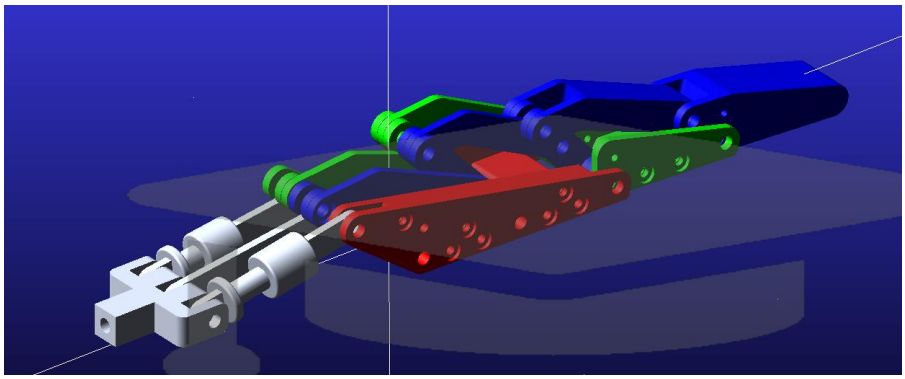


Implemented system of controller, ultrasound sensor and water pumps to automatically activate when a cup is detected.

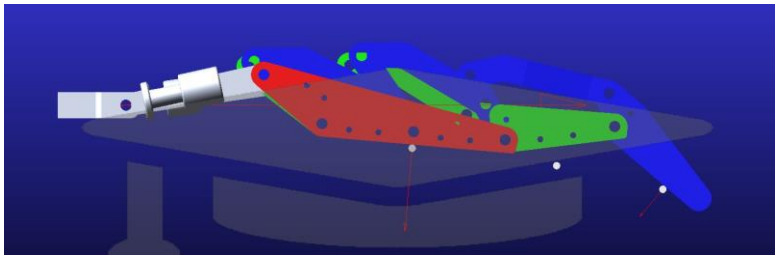


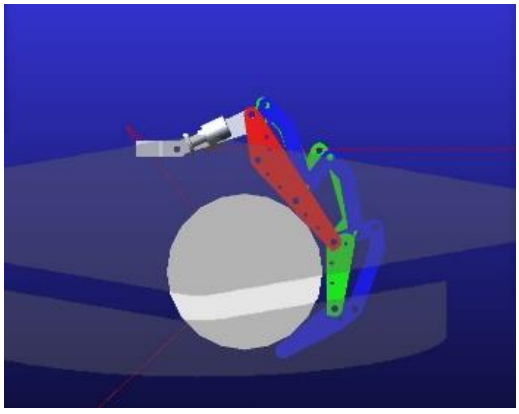
ROBOT FINGER OPTIMIZATION

UNDERGRADUATE RESEARCH



Worked on optimizing configuration of a underactuated robot finger.





Built a design guideline for future experience and research.

RENDERING
KEYSHOT

PRODUCT MODELING
AUTODESK INVENTOR