

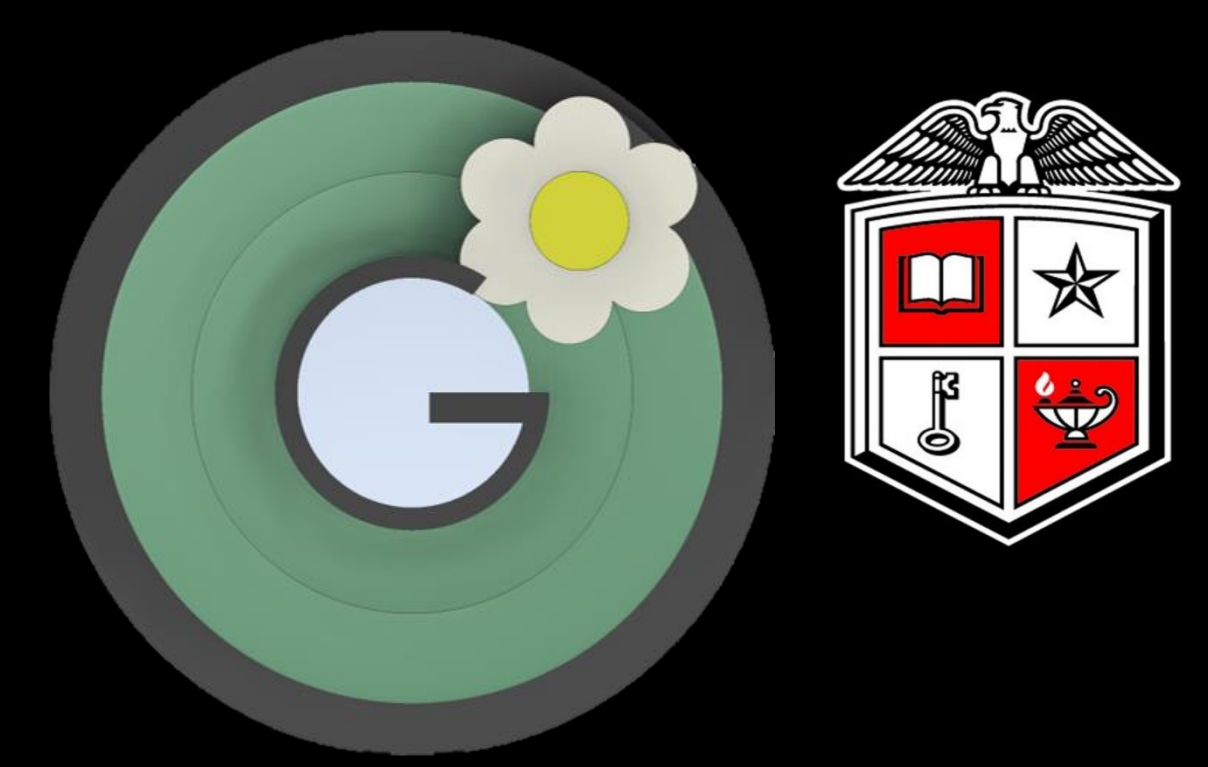
# Garden Grabber

ME4371-701: Design II

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## CAD Design



## Introduction

The Garden Grabber increases the accessibility of gardening by eliminating the need to bend over while planting. It is designed to pull plants out of their containers using a spring-loaded ejector to remove the pot from the plant so that it will be prepared to be placed into the dirt, all while not needing to bend down at all!

## Problem

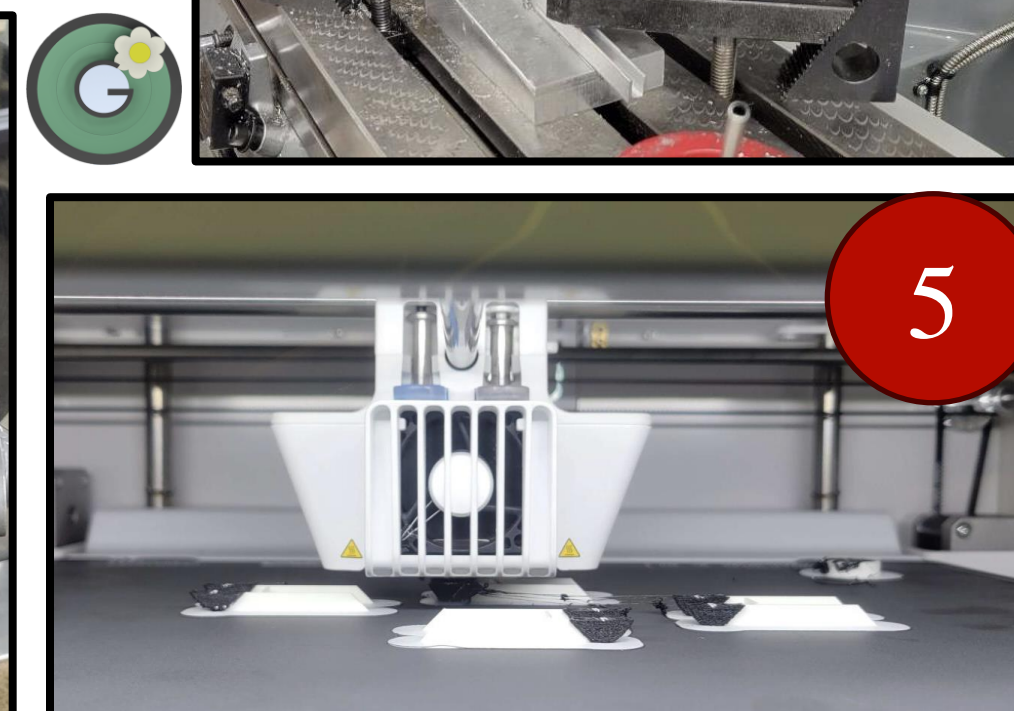
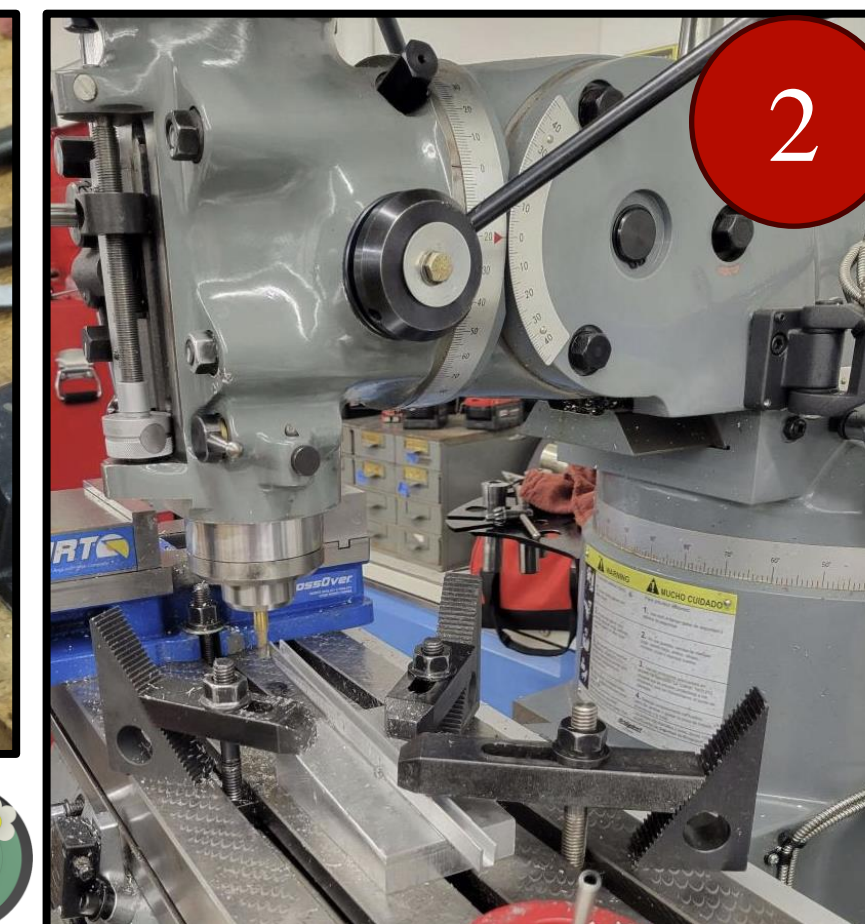
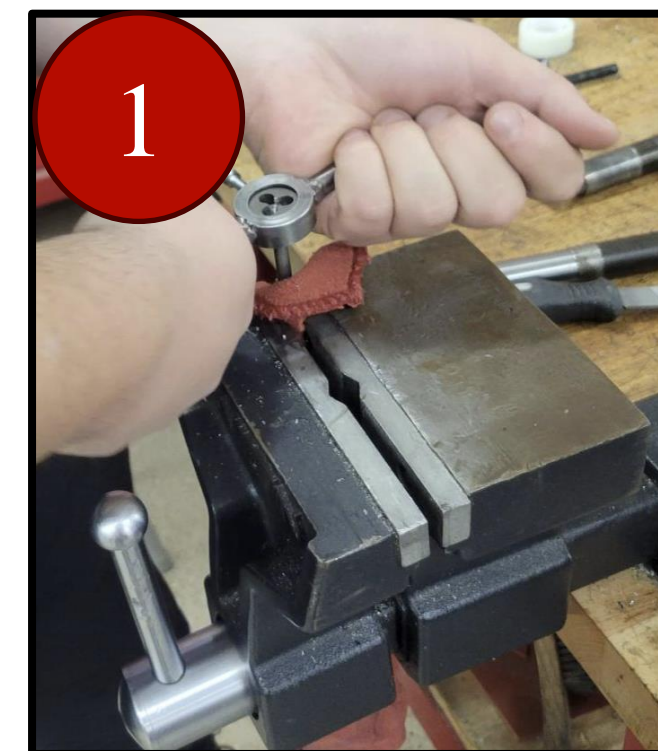
The need for a gardening tool that mitigates back and joint pain to extended gardening sessions is crucial for both professional landscapers and hobbyists facing mobility challenges.

## Features

- Can be used while standing
- Weather resistant
- Works with 2 ¾ in square pots and 4 in round pots
- Easily replaceable parts

## Manufacturing

1. Threading of the inner rod by hand
2. A prong being milled at an angle
3. Widgets manufactured using the lathe
4. The angle block being milled for the prongs
5. The links being 3D printed in nylon



## Final Design

