**Garden Grabber**

**ME4371-701: Design II**  
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**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!

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**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.

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**Features**

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

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**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

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**Final Design**

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