Arborator

Problem

• saplings weigh 50-200 lbs
• awkward and difficult to carry

• need a better method to transport and plant trees
Market

- 1.1 million landscaping and groundskeeping workers
  - 1 out of 4 are self-employed
- target consumers: small scale landscapers, homeowners, and non-profit groups such as City Roots
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Design Intent

- lightweight and portable
- inexpensive
- maneuverable
- minimal handling of tree trunk and branches
- range of six feet in vertical lift
- operable by one or two people
**Arborator**

**Design Features**

- two hydraulic jacks for vertical and horizontal motion
- handle bar for easy pushing/pulling
- wide base surrounds the hole for stability