Monitor Lift & Paint Cap Remover

Thuy Pham, Katie Zilm, Pat Keating, Dan Zachs
Monitor Lift
Monitor Lift — The monitor

- Flat LCD Samsung 275T
Monitor Lift — The monitor mount

<table>
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<tr>
<th>Model</th>
<th>Make</th>
<th>Model</th>
<th>Type</th>
<th>Adapter Required</th>
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<td>275T</td>
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<td>32</td>
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- VESA® 75, 100, 200 x 100 and 200 x 200 mm compatible
Monitor Lift — The design

- Mount Support
- Mount
- Guide Rails
- Guide Rail Support
- Linear Actuator

Back view of mount attachment
Monitor Lift - Displacement

12 inches
Monitor Lift — Work completed

Monitor’s Support

24”
9.5”
14.44”
Monitor Lift — Work completed

24”

31.75”

24”
Monitor Lift — Work completed

Guide Rails & Strut
Monitor Lift — Work completed

Rails & Brackets

Back view of mount attachment
Monitor Lift — Work completed
Paint Cap Remover

Diagram labels:
- Lever
- Wall
- Clamp
- Paint Tube
- Paint Tube's Holder
- Motor
- Device Enclosure
Paint Cap Remover — Design

- Remover motor’s enclosure, replace with motor’s holder, in which a hole will be milled out.
Paint Cap Remover — Work Completed

Motor’s holder
Paint Cap Remover — Work Completed

- Motor
- Motor’s holder
- Tube’s holder
- Wall support
- Base
Paint Cap Remover — Work Completed
Paint Cap Remover — Work Completed
Future Work

- Monitor Lift
  - Attach the rail struts to the platform
  - Attach monitor mount to the monitor’s support
  - Design and implement the switch into the device

- Paint Cap Remover
  - Attach the clamp to the supporting wall
  - Wire the motor to the switch
  - Implement the AC adapter
Total Hours

- Dan – 16 hours
- Thuy – 14 hours
- Katie – 14 hours
- Pat – 14 hours