Porta-Plotter
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• Paint Images Onto Any Flat Surface

• Make Spray Paint Work Like a Printer
Market and Consumer Profile

- Outdoor Advertisement Industry - $6.7 B
- Interior Paint Industry - $3.2 B
- Potential Customers
  - Advertisers
  - Outdoor Artists
  - Interior Decorators
Sketch Model Objectives

• Can we miniaturize airbrush heads?
• For what range of focal distances can we position the nozzle from the surface?
Sketch Model

PAINT RESERVOIR

PRESSURIZED AIR

OUT TO AIRBRUSH TIP
DEMO
Conclusions

• Reliable control of paint flow is achievable with 3D printed parts

• Minimum pixel size of 4mm diameter dot

• Print quality should be acceptable over a range of sidewalk and roadway surfaces
Questions?
Hello World