AFM 9000
automatic falafel machine
problem
30,000 restaurants serving falafel in US
5,000 food trucks serving falafel in US

Estimated price of AFM 9000: $3000
needs

Size
Retrofits 20”(w) x 25”(l) x 36”(h) space
Hopper holds 2 gallons of dough

Efficiency
Throughput: 1 ball/sec

Usability
Easy to clean & assemble
Minimize human interaction needed
Mechanism to effectively extrude falafel dough into balls
#1: rollers

What we learned:

• Not well-suited to dough consistency

• Dough escapes through gaps
#2: auger

What we learned:

- Extrusion screw effectively feeds dough into molds
- Molds form solid cylinders of dough

What to improve:

- Apply pressure to dough to move it into the auger
#2: auger
next steps

Prototype with FDA approved materials
Motorize extrusion mechanism
User testing with Clover MIT
Link to order-taking mobile device