

August 20, 2021

Automating Coffee with robotics & computer vision

Gavin Miller

Dubberly Design Office

Examples of robot arm coffee companies



Blue Hill Coffee



MontyCafe



CafeX



Rozum Cafe

Robot arm vs self-contained machine



Blue Hill Coffee



MontyCafe



Costa Coffee
(previously Briggo)



CafeX



Rozum Cafe

MontyCafe can do
more than just coffee

Coffee / Coffee Printing

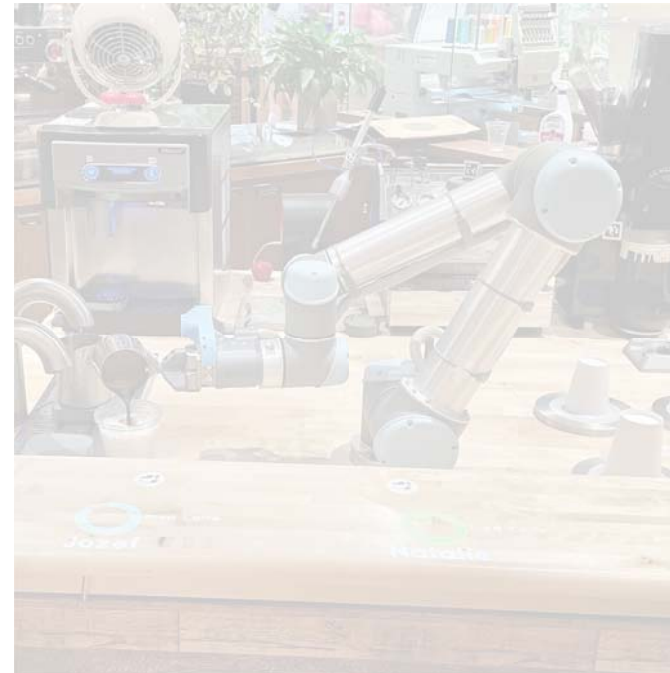
Ice Cream

Soft Drinks

Candy

Muffins

Cocktails



Blue Hill Coffee



MontyCafe



CafeX



Rozum Cafe

Examples of robot arm coffee companies



Blue Hill Coffee



MontyCafe



CafeX

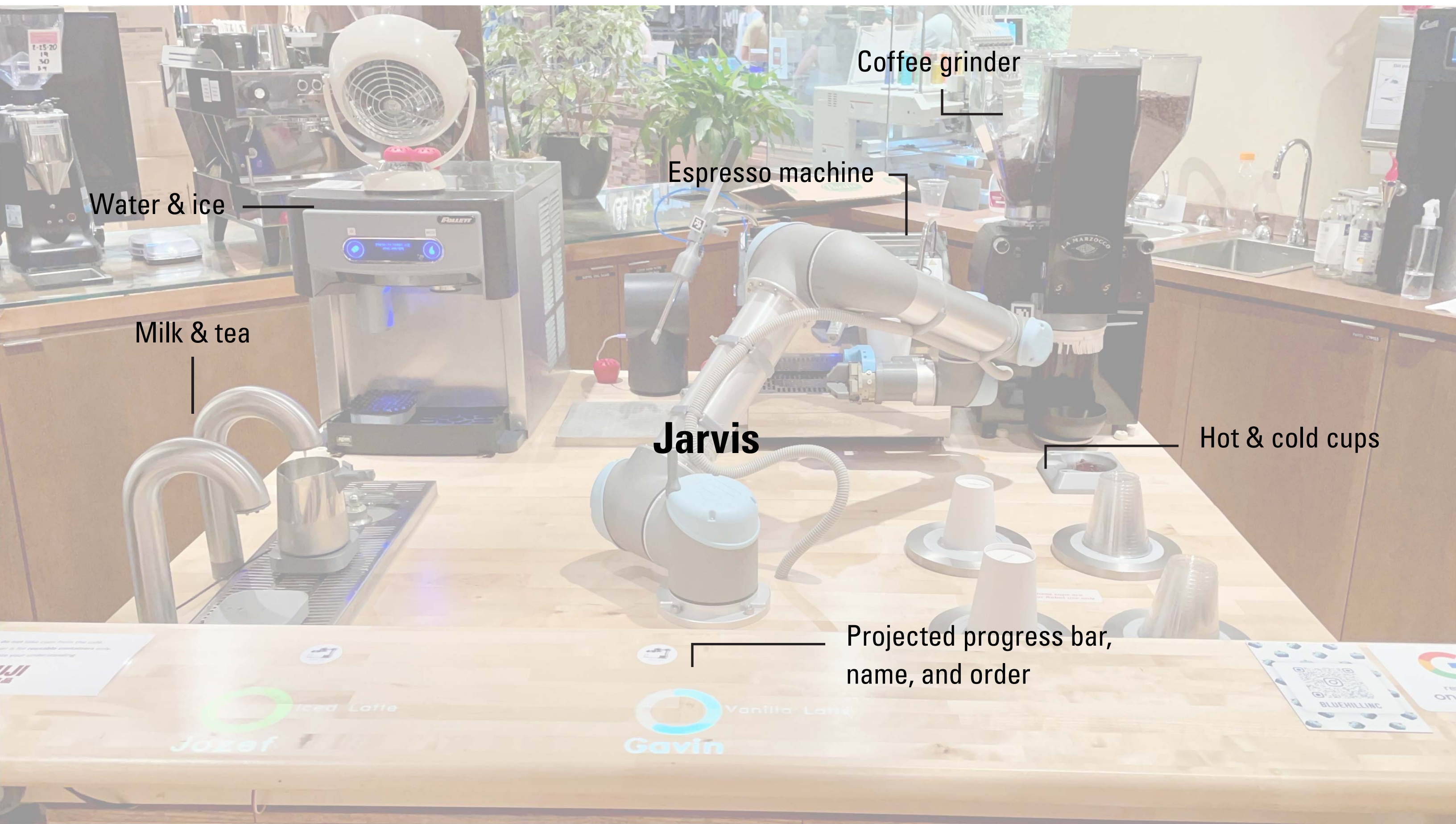


Rozum Cafe

Blue Hill Coffee



Blue Hill Coffee



Water & ice

Milk & tea

Coffee grinder

Espresso machine

Jarvis

Hot & cold cups

Projected progress bar,
name, and order

Iced Latte
Jozef

Vanilla Latte
Gavin



Blue Hill Coffee



Blue Hill Coffee



Mini QR codes on each object
for easy identification



Blue Hill Coffee



CafeX



MontyCafe



Rozum Cafe



TECHNOLOGY

Our technologies enable robot baristas to learn various coffee making techniques from human baristas.



ROBOTICS

The robots are trained by expert human baristas using artificial intelligence to brew specialty coffee. As robots, they eliminate the risks that human contact may pose to public health.



COMPUTER VISION

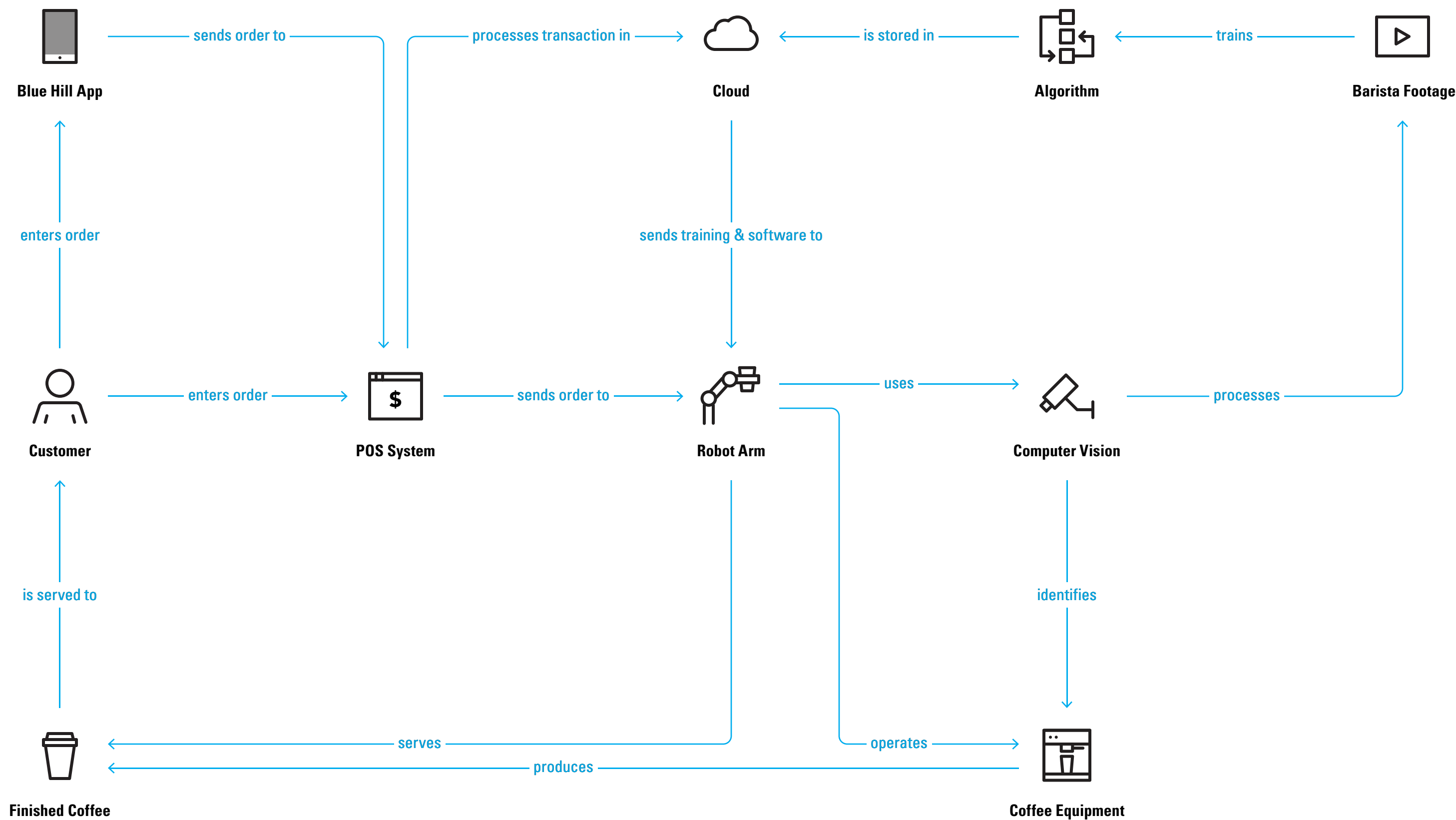
We equip our robots with state-of-the-art computer vision technology to locate nearby objects, to be safe and friendly to human, and to inspect the quality of coffee.



CLOUD

The robots draw from a suite of programs, accessible on Blue Hill's cloud infrastructure, to accomplish tasks that include grinding beans, steaming milk, and pouring latte art.

Blue Hill Coffee Concept Diagram



Special thanks to
Hugh Dubberly

Presentation posted at
presentations.dubberly.com/automating_coffee