Sigmund Droid Presentation:

Good afternoon, we are Sigmund Droid, and we created Sigmund, JPMC floor butler.

At our initial brainstorm trying to decide what our ev3storm would do, all our collective ideas centered on themes of increasing collaboration, reducing overhead, and delivering superior customer service. Most of our ideas had one thing in common, the robot required intelligent indoor navigation. Indoor navigation coupled with preloaded JPMC floor plans presents itself endless opportunities if the robot can also integrate, call JPMC application APIs as well as interact directly with employees and customers.

Our proof of concept design consists of a slim Debian OS called ev3dev, all the programming is done in python and we custom designed our robot for ease of maneuvering indoors and avoiding obstacles. High level, we start Sigmund at a fixed point and call an API for the location data mapping and then move to the pre-calculated destination from the start point. We will show you 3 demonstrations on how this can be applied in the real world:

Use Case 1:

I step into a Chase branch bank, and I would like to speak to a financial advisor. Sigmund will greet me, would know which financial advisor is available and then chaperone me to his desk and make the introductions.

Use Case 2:

We believe walking over to a colleague’s desk instead of a video call or IM chat would help build relationships and collaboration. We resist because the challenge of locating that person’s desk for the first meet and greet is too much of a hurdle. Sigmund can assist by escorting you to that colleague’s desk. You meet Sigmund by the elevator on the floor, input the employee’s sid (we use a color sensor to represent the sid), and voila, Sigmund will now usher you that colleague’s desk.

Use Case 3:

When a vendor or employee is visiting, onsite for an important meeting, rather than another employee having to greet and escort them, why not send Sigmund? We envision Sigmund can call the owner’s meeting calendar using Exchange web services and extract the conference room name and Sigmund will act as their floor guide while avoiding an obstacle to the conference room.