

Amazon Here We Come!



Required skills: desire to learn and change the world in the process!

Background

Online shopping is a way of life of many of us and we simply take for granted the easiness of ordering and receiving our wish list. A critical part of this cycle is warehouse inventory management. Keeping track of what and where in a highly dynamic environment is a significant juggling task. Currently, most warehouses require workers to walk the aisle and scan all the pallets for a cycle count or physical inventory of materials. This is a time-consuming process and not very robust. Automation is likely more efficient and reduces human error.

Objective

There is strong need/demand for a cost effective and reliable solution to this challenge. Unlike other applications of autonomy, the warehouse is a relatively controlled environment and therefore the uncertainty is limited. Nonetheless, the challenges abound in developing an autonomous robust system to continuously and effectively track the inventory. A drone-based solution is tempting at first but as is the case for all LINDT projects, the team will explore all-viable solutions and down select to the optimal one.

Last year, the Hopkins Delivers project took on the big elephants in the autonomous delivery space and we are about to repeat history so join us!

The sponsor for this project is Barcoding Inc, a very innovative company that was founded and is based in Baltimore.