

EE / CPRE / SE 491- sddec20-10

Warehouse Automation

Week 2 Report

2/3/2020 - 2/16/2020

Client: none

Faculty Advisor: Dr. Rover

Team Members:

Jacob Ramsey-Smith

Jack Creighton

Stamati Morellas

Amir Hamza

Past Week Achievements

- Discussed plan of attack
 - Handheld scanners or Drones?
 - We have a reference in the following article citing an Argon Consultist that 2 drones can do the work of 100 people over the same period of time.
<https://www.bbc.com/news/business-41737300>.
 - PINC AIR says that Inventory checks done by people have 89-99% accuracy.
 - Implement goods to man automation?
 - Depends on the client. Would like to have the drones move the shelves, but a client would have to have those shelves first.
- 10 Features of autonomous warehouse
 1. Scanning
 2. Real-time inventory
 3. Systems integration
 4. Metrics
 5. Driver Scanning
 6. Lighting and Security
 7. Automated Gate System
 8. Business Continuity
 9. Mobile System
 10. Employee tracking

We are aiming to implement these features with our Product

Pending Issues

- Lack of client

Plans for coming week

- Group up into teams and start work on some functionality, contact potential clients