

CprE / SE / EE – sddec26-11

CyFlyBot: Collaborative CyBot and UAV System for Faster Missions

Week 5 Report

March 24th 2026 – Dec 2026

Client: Dr. Rover and Dr. Jones

Faculty Advisor: Dr. Rover and Dr. Jones

Team Members:

Daniel Bieber

John Brittain

Jake Nickel

Caleb Sanchez

Tu Reh

Ping Wu

Mitchell Fowler

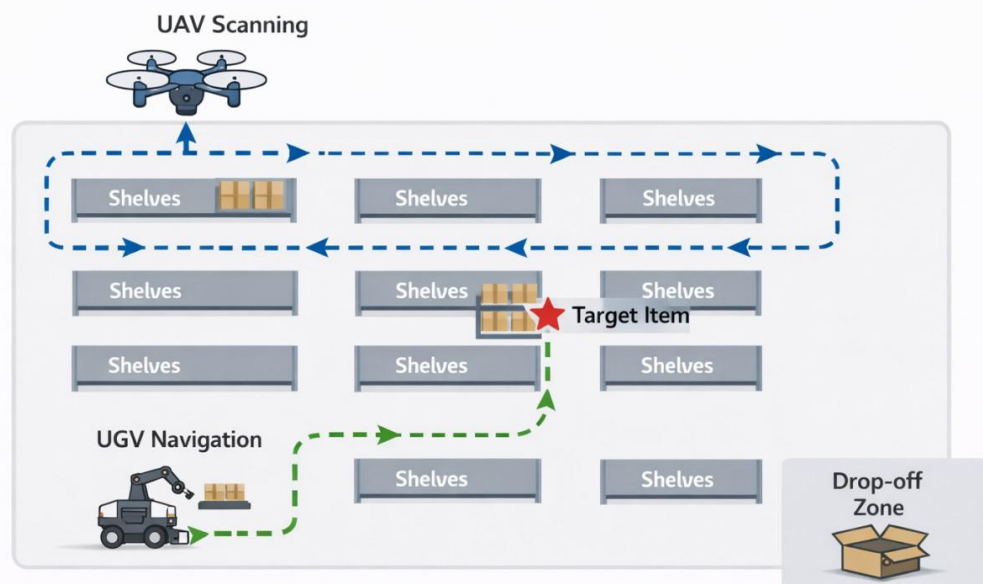
Weekly Summary

We placed an order for a CyBot with ETG and have made plans to test Dr. Jones's drone to determine what components we expect would work best for our scenario. However, ETG does not have any spare CyBot's, so discussions are being had for alternatives. We also continued brainstorming and researching on a variety of topics.

Past Week Accomplishments

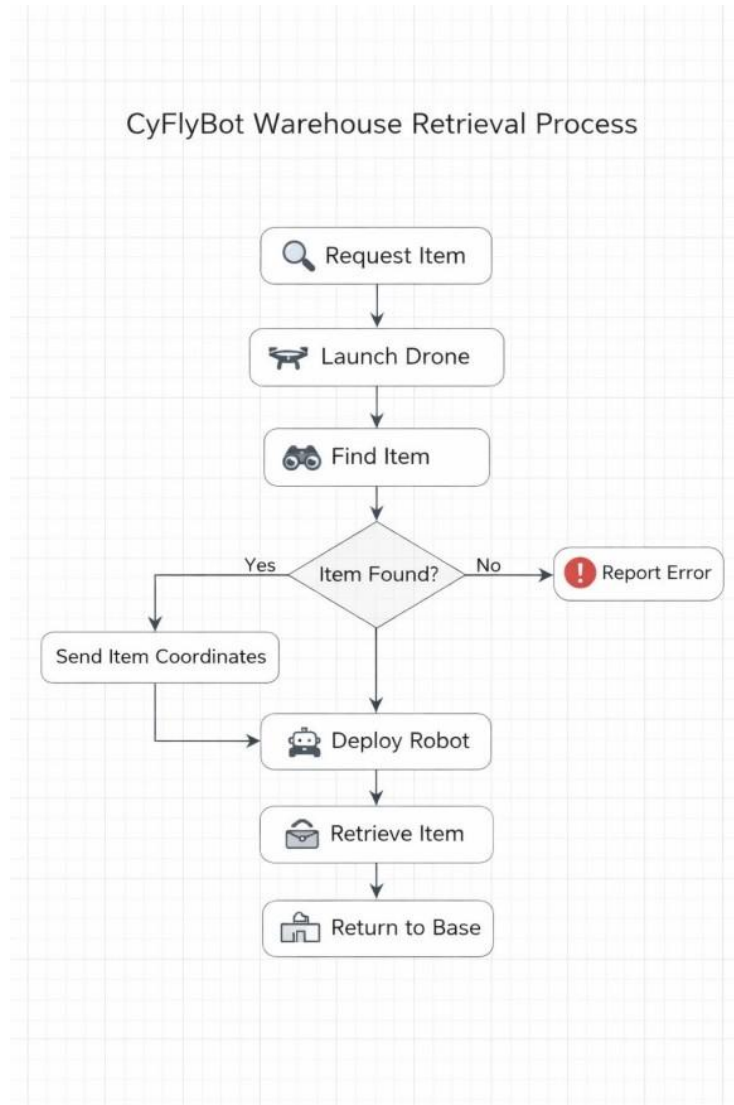
- Team
- Daniel Bieber
 - Brainstorm Search Flow w/QR code navigation from week 4 (30 minutes)
 - See SharePoint for search flow brainstorm
 - Report Writing (15 min)

- John Brittain
 - Interviewed warehouse professionals asking about potential use-cases/opportunities for improvement (30 minutes)
 - Research existing warehouse setups: Amazon, UPS, local, etc. And other real-world examples. Primarily about common inventory management systems, and technologies. (30 minutes)
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- Jake Nickel
 - Brainstorm / researched navigation ideas (20 minutes)
 - Researched more about QR codes (30 minutes)
- Caleb Sanchez
 - Researched bitcraze api to get an idea of code structure (1 hour)
 - Website work (1 hour)
 - Created application scenario diagram (30 minutes)



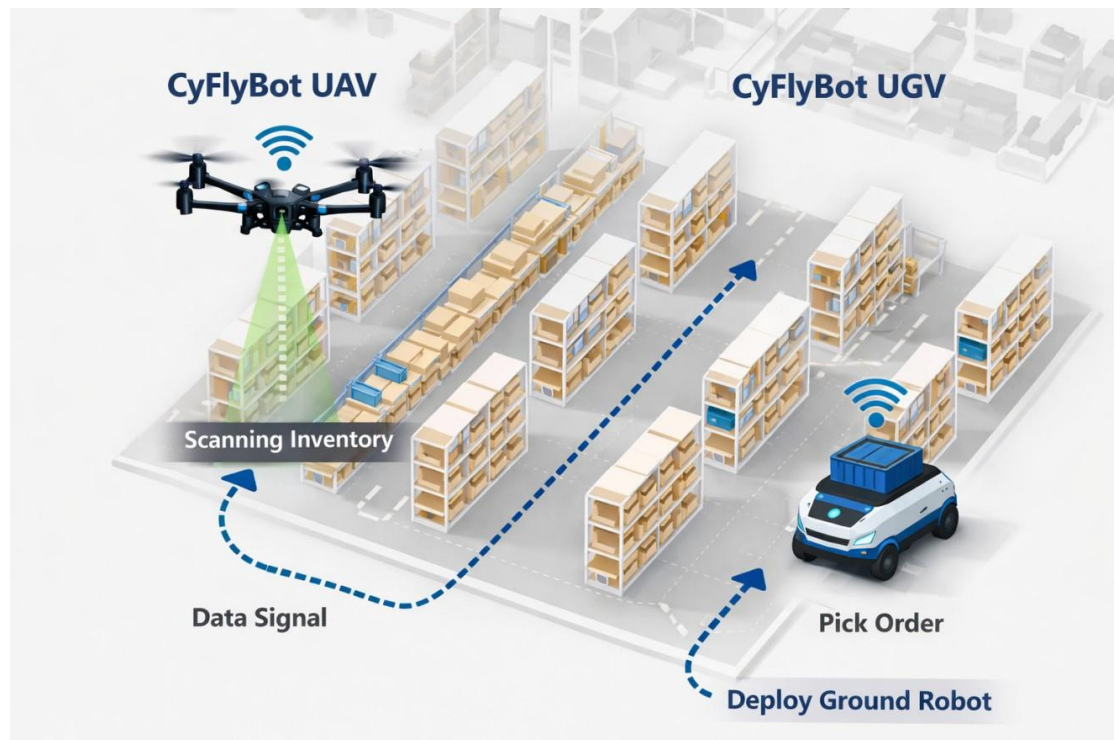
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- Tu Reh

- Created warehouse retrieval process diagram (30 minutes)



- Research previous semester project webpage for ideas on our webpage design and expectations (60 minutes)
- Ping Wu
 - Reviewed potential Cybot alternative (45minutes)
 - Reviewed the app that comes with the robot for an idea of how our app might look (20 minutes)

- Created diagram for visualization of warehouse application (30 minutes)



- Mitchell Fowler
 - Email writing/Liaison (20 min)
 - Project Management Research and Document Creation (1 Hour)
 - See sharepoint
 - Hardware Research(40 minutes)
 - Cybot Alternative(20 Minutes)
 - ESP32 Workshop(20 Minutes)

Pending Issues

- Resource Acquisition Request with ETG for drone
- CyBot Supply issues
 - Alternatives?

Plans for Coming Week

- Continue Brainstorming
- Continue Researching
- Test Dr. Jones's drones
- Determine hardware needs for the drone
- Modify existing slide presentation(generic) to our new idea

- Prepare for lightning talk, finish slides and determine user needs, figure out individual roles during presentation.