



ROBO CREW

SPRINT 5 PLAN

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Sprint Goal

Our goal for Sprint 5 will be designing and acquiring paintball gun and holder to install onto the robot arm and completing the Detailed Design Specification.

Product Backlog

| Backlog Item | Estimate (hours) |
|--|------------------|
| Detailed Design Specification (DDS) | 10 |
| Designing / acquiring paintball gun and holder | 30 |

Sprint Backlog for DDS

| Backlog Item | Estimate (hours) |
|--------------------------------|------------------|
| Introduction / System Overview | 1 |
| Input Layer | 3 |
| Processing Layer | 3 |
| Robot Arm Layer | 2 |
| Indicator Layer | 1 |

Sprint Backlog for Equipment

| Backlog Item | Estimate (hours) |
|--------------------------------------|------------------|
| Research electric trigger and wiring | 6 |
| Prototyping the holder | 5 |
| Read manuals + documentation | 8 |
| Robot maintenance (error fixing) | 10 |
| Buy safety gear | 1 |

Sprint Risks

Risk 1: Improper handling can lead to injury

- Mitigated by wearing safety gear

Risk 2: Property damage in the lab, including damaging windows, the robot, and other surroundings.

- Mitigated by obtaining a cover for the robot arm and operating the robot in a controlled manner. Also, the team plans to write and follow safety rules for operation.

Risk 3: Buildup of unknown errors, new errors arising, etc.

- Mitigated by reading documentation and reaching out to professor and TA.

Questions?
