ROBO CREW
SPRINT 7 PLAN

Ameen Mahouch
Akshay Paluri
Muhammad Anas
Hyunho Kim
Kundan Singh Mahato

Sprint Goal

Our goal for Sprint 7 will work on PLC, integrate the paintball marker, and finalize safety features.

Product Backlog

Backlog Item	Estimate (hours)
PLC	12
Integrating the Paintball marker	15
Safety Features	5

3

Sprint Backlog for PLC

Backlog Item	Estimate (hours)
Device Configuration of the GPIO	4
Communicating GXWorks3 and RT Toolbox3	1
Testing various outputs, including the FX5-8EYR/ES 8 output relay	4
Identifying and reading part manuals	3

Sprint Backlog for Paintball Marker

Backlog Item	Estimate (hours)
Mount the paintball marker on to the robot arm	2
Wire the electric/solenoid valve to the PLC	1
Buy Safety gear	1
3D print mounting bracket for paintball marker	3

Sprint Backlog for Safety

Backlog Item	Estimate (hours)
Light tower	6
Standard wiring – OSHA and NFPA Standards	1
Canvas/ Board for painting	1
Revise safety documentation	2

Sprint Risks

Risk 1: Time constraint

- Not receiving the parts within the time constraint.

Risk 2: Schedule conflicts

- Mitigated by proper communication between team members, allocating enough time for project requirements.

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

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

Questions?