# **Robotics - Assignment #1**

### **Unit 1: Introduction to Robotics and Team Setup**

Guiding Question: How do we collaborate effectively in robotics?

## **Learning Outcomes:**

- Understand the course structure and the importance of teamwork.
- Familiarize yourself with VEX EXP kits and their components.

#### **Assignment: Team Collaboration and VEX EXP Kit Overview Presentation**

**Objective:** Create a presentation in your group (2-3 members) that demonstrates your understanding of effective team collaboration and the basic components of the VEX EXP kit. This assignment will set the foundation for successful teamwork and technical skills throughout the course.

EXP Kit Components: <a href="https://content.vexrobotics.com/docs/280-7735-750-Rev7.pdf">https://content.vexrobotics.com/docs/280-7735-750-Rev7.pdf</a>

#### **Presentation Requirements:**

Your presentation should cover the following key areas:

#### 1. Introduction:

Briefly introduce your group members and your roles within the project.

#### 2. Team Collaboration:

- Task Division: Explain how tasks were divided among group members.
  Ensure that each role is clearly defined.
- Problem-Solving Strategies: Discuss how your group plans to handle potential problems (e.g., disagreements, technical issues). Include strategies for maintaining clear communication and ensuring that everyone is on track.

#### 3. VEX EXP Kit Overview:

- Component Identification: List the main electronic components in the VEX EXP kit and describe their functions within the robotics system.
- Equipment Handling: Describe how you will handle and maintain these components to ensure safe and effective use.

## 4. Conclusion:

o Summarize your key points and reflect on what your group has learned about collaboration and the VEX EXP kit.

## **Presentation Format:**

• Length: 5-7 minutes

• Visual Aids: Use slides, diagrams, or other visual aids to enhance your explanation.

**Due Date:** See Teams

## **Grading Rubric**

Criteria	Excellent (4)	Good (3)	Satisfactory (2)	Needs
				Improvement
				(1)
Task	Tasks were divided	Tasks were	Tasks were divided	Tasks were not
Divisio	equally, and roles	divided, with	unevenly, with	clearly divided
n	were clearly	minor issues in	some unclear roles.	or defined.
	defined.	role clarity.		
Proble	Thoughtful and	Practical	Basic strategies	Little to no
m-	practical strategies	strategies with	with limited	problem-
Solving	for handling	some room for	practical	solving
Strategi	problems.	improvement.	application.	strategies
es				presented.
Compo	All key	Most key	Some components	Few
nent	components	components	identified, but	components
Identifi	accurately	identified and	explanations lacked	identified, with
cation	identified and well	explained.	detail.	weak
	explained.			explanations.
Equipm	Clear and thorough	Good	Basic explanation,	Little to no
ent	explanation of safe	explanation,	lacking detail or	explanation of
Handlin	and effective	with minor	clarity.	equipment
g	handling.	details missing.		handling.
Present	Well-organized,	Organized and	Some organization	Disorganized,
ation	engaging, and	clear, with good	and clarity; visual	unclear, and
Quality	clear; excellent	use of visual	aids used but not	poor use of
	use of visual aids.	aids.	effectively.	visual aids.
Group	All members	Most members	Uneven	Little to no
Particip	actively	participated,	participation, with	participation
ation	participated and		one or two	from some

CO	ntributed	with minor	members	group
eq	jually.	imbalances.	dominating.	members.

**Total Score:** \_\_\_\_ / 24

Comments: