



# CW High School

## Robotics II

### 1. Activity 1 Automation LED Control (11.12%)

#### Learning Targets

#### 1.1 I can understand, control, modify and predict the programming of an LED

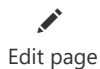
| Learning Target | Descriptor  | Definition   |
|-----------------|-------------|--|
| 4               | Proficient  | I can understand, control, modify and predict the programming of an LED                          |
| 3               | Developing  | I can do 3 of the following: understand, control, modify and predict the programming of an LED   |
| 2               | Basic       | I can do 2 of the following: understand, control, modify and predict the programming of an LED   |
| 1               | Minimal     | I can do one of the following: understand, control, modify and predict the programming of an LED |
| 0               | No Evidence | No evidence shown.   |

### 2. Activity 2 Automation Motor Movement (11.11%)

#### Learning Targets

#### 2.1 I can understand, control, modify and predict the programming of a motor

| Learning Target | Descriptor  | Definition  |
|-----------------|-------------|---|
| 4               | Proficient  | I can understand, control, modify and predict the programming of a motor                        |
| 3               | Developing  | I can do 3 of the following: understand, control, modify and predict the programming of a motor |
| 2               | Basic       | I can do 2 of the following: understand, control, modify and predict the programming of a motor |
| 1               | Minimal     | I can do 1 of the following: understand, control, modify and predict the programming of a motor |
| 0               | No Evidence | No evidence shown.  |



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## Robotics II

### 3. Activity 3 Automation-Conveyer Movement (11.11%)

#### Learning Targets

#### 3.1 I can understand, control, modify and predict the movement of a conveyer.

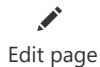
| Learning Target | Descriptor  | Definition   |
|-----------------|-------------|--|
| 4               | Proficient  | I can understand, control, modify and predict the movement of a conveyer.                        |
| 3               | Developing  | I can do 3 of the following: understand, control, modify and predict the movement of a conveyer. |
| 2               | Basic       | I can do 2 of the following: understand, control, modify and predict the movement of a conveyer. |
| 1               | Minimal     | I can do 1 of the following: understand, control, modify and predict the movement of a conveyer. |
| 0               | No Evidence | No evidence shown.   |

### 4. Activity 4 Automation-Load the Conveyer (11.11%)

#### Learning Targets

#### 4.1 I can understand, control, modify and predict pick and place movement.

| Learning Target | Descriptor  | Definition  |
|-----------------|-------------|---|
| 4               | Proficient  | I can understand, control, modify and predict pick and place movement.                        |
| 3               | Developing  | I can do 3 of the following: understand, control, modify and predict pick and place movement. |
| 2               | Basic       | I can do 2 of the following: understand, control, modify and predict pick and place movement. |
| 1               | Minimal     | I can do 1 of the following: understand, control, modify and predict pick and place movement. |
| 0               | No Evidence | No evidence shown.  |



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## Robotics II

### 5. Activity 5 Automation-Check out sort options (11.11%)

#### Learning Targets

#### 5.1 I can understand, control, modify and predict if-else statements

| Learning Target | Descriptor  | Definition  |
|-----------------|-------------|---|
| 4               | Proficient  | I can understand, control, modify and predict if-else statements                        |
| 3               | Developing  | I can do 3 of the following: understand, control, modify and predict if-else statements |
| 2               | Basic       | I can do 2 of the following: understand, control, modify and predict if-else statements |
| 1               | Minimal     | I can do 1 of the following: understand, control, modify and predict if-else statements |
| 0               | No Evidence | No evidence shown.  |

### 6. Activity 6 Automation-Final Challenge Project (11.11%)

#### Learning Targets

#### 6.1 I can develop a challenge that controls LEDs, Motors, Conveyers, and if-else statements to accomplish a task.

| Learning Target | Descriptor  | Definition  |
|-----------------|-------------|---|
| 4               | Proficient  | I can develop a challenge that controls LEDs, Motors, Conveyers, and if-else statements to accomplish a task.                     |
| 3               | Developing  | I can develop a challenge that controls 3 of the following, LEDs, Motors, Conveyers, and if-else statements to accomplish a task. |
| 2               | Basic       | I can develop a challenge that controls 2 of the following, LEDs, Motors, Conveyers, and if-else statements to accomplish a task. |
| 1               | Minimal     | I can develop a challenge that controls 2 of the following, LEDs, Motors, Conveyers, and if-else statements to accomplish a task. |
| 0               | No Evidence | No evidence shown.  |



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### 7. Activity 6 Automation-Final Project QUIZ (11.11%)

#### Learning Targets

#### 7.1 I can understand control of LEDs, Motors, Conveyers, and if-else statements to accomplish a task.


| Learning Target | Descriptor  | Definition  |
|-----------------|-------------|---|
| 4               | Proficient  | I can understand control of LEDs, Motors, Conveyers, and if-else statements to accomplish a task.                     |
| 3               | Developing  | I can understand 3 of the following: control of LEDs, Motors, Conveyers, and if-else statements to accomplish a task. |
| 2               | Basic       | I can understand 2 of the following: control of LEDs, Motors, Conveyers, and if-else statements to accomplish a task. |
| 1               | Minimal     | I can understand 1 of the following: control of LEDs, Motors, Conveyers, and if-else statements to accomplish a task. |
| 0               | No Evidence | No evidence shown.  |

### 8. RobotArm Basics (11.11%)

#### Learning Targets

#### 8.1 I can name, understand, and apply DOF, Servo Value, and input percentage to unique problems in a robot.

| Learning Target | Descriptor  | Definition  |
|-----------------|-------------|---|
| 4               | Proficient  | I can name, understand, and apply DOF, Servo Value, and input percentage to unique problems in a robot. |
| 3               | Developing  | I can name, understand, and apply DOF, Servo Value, and input percentage to a robot.                    |
| 2               | Basic       | I can name, understand, DOF, Servo Value, and input percentage to a robot.                              |
| 1               | Minimal     | I can name, DOF, Servo Value, and input percentage to a robot.  |
| 0               | No Evidence | No evidence shown.  |



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### 9. RobotArm Servo Movements (11.11%)

#### Learning Targets

9.1 I can predict, control, and troubleshoot gripper, base movement, and elbow movement on a unique robot problem.

| Learning Target | Descriptor  | Definition   |
|-----------------|-------------|--|
| 4               | Proficient  | I can predict, control, and troubleshoot gripper, base movement, and elbow movement on a unique robot problem. |
| 3               | Developing  | I can predict, control, and troubleshoot gripper, base movement, and elbow movement.                           |
| 2               | Basic       | I can, control, and troubleshoot some of the following: gripper, base movement, and elbow movement             |
| 1               | Minimal     | I can, control, a few of the following: gripper, base movement, and elbow movement                             |
| 0               | No Evidence | No evidence shown.   |

Submitted on 6/29/2021 by