Design Requirement		
Date:	**10/18/2021**	
Design Project Title:	**Deliveroid**	
Team Name:	Tempest Team	
Team Advisor	**Dr. Kim**	
Team Assistant		
Project's Long Term Goal	**To create a robot that will autonomously deliver items to multiple floors and buildings**	
Project's Current Academic Year Goal	**2022**	
Team Members (Senior Design Class)	Michael Vaughan, **Forzando Mebane, Williams Obidike**	
Team Members (Others)		
1-Sentence Problem Statement	Getting up from your desk to transfer documents has developed the need to create a robot that will autonomously transfer said documents so that you will not get disturbed from your work.	
Requirements	**Items**	**Descriptions**
1. Product Specification (or Software Requirement Specification)	**2D Map**	**Simulation area mapping and measurement**
	Arduino code	**Meshing map with motor code**
	Arduino Uno	**For embedded development of device functions**
	3D Model	**Frame assembly of the robot**

	ESP8266 wifi module	Network features
2. Contraints	Cost	Under $200
	Time	Deadline: April 2022
	Environmental and Social Responsibility	Use recycled parts Electric motor Power efficient

3. Compliance to regulations and standards

Standard / Rugulations	ISO 13849-1 Safety of machinery and parts of control system International Electrotechnical Commission (IEC) 61000-4-2 Electrostatic Discharge Immunity Test
Standard	
Patent Intellectual Property	Delivery robot product