Design Requirement Form		
Date:	12/6/2017	
Design Project Title:	Board Game Playing Robot	
Team Name:	Team Terminator	
Team Advisor	Chidi Ekeocha	
Team Assistant	Cory Bethrant	
Project's Long Term Goal	Chess Playing Robot	
Project's 2017-2018 Academic Year Goal	Tic-Tac-Toe Playing Robot	
Team Members (Design Class)	Cory Bethrant & Maxime Keita	
Team Members (Others)	William Johnson, Christopher Leader, Oluwaakanyinsola Adebayo, Tamaraupreye Benni, Sudarshan Prajapti, Eric Bond, Milan Albakri-Micou, Tekevwe Akoroda	
Requirements	**Descriptions**	**Source**
Background (NEED)	Needs to Demonstrate all the major capabilities of a real-life robot as a proof-of-concept.	**Team Terminator**
Objective (Problem)	AI must defeat human opponent without intervention.	Team Terminator
Performance	AI Should Win AI is Required to be Know When Opponents Turn is Over AI is Required to Keep Track of Game State Robot is Required to Move Pieces Independently	Team Terminator
Cost	<$100	Adafruit/Best Buy
Safety	Parts are standardized FFC Approved Electronics Devices. No Electrical Internals Are Exposed.	Adafruit/Best Buy
Compliance	All Components Follow FFC Regulations Related To Electrical Components and Moving Parts.	Adafruit/Best Buy
Energy, Power, and Environment	4xD Batteries Required (not included) for Arm USB for Camera	Adafruit/Best Buy
Intellectual Property	OpenSource	OpenCV/TensorFlow
Size and Weight	6.3 x 15 x 9 inches	Adafruit/Best Buy
Deliverables	Tic-Tac-Toe Brute Force Algorithm	Team Terminator
Others		
Others		