Problem Statement Form

for VIP and Design Class

Date: 10/04/2017

Team Name	Dreamers	
Team Project Title	The EV 2.0	
Team Advisor	Dr. Emmanuel Glakpe	
Team Assistant	David Quashie Jr.	
Team Members	Senior Design Class Students	Olaniyi Nafiu Arinze Udeh Ikenna Onyenze Goodness Fowora
	Other Students	Oluwafikunwa Kolawole Oghenetekevwe Akoroda Ayush Giri Jeantelle Fracis Mathew Sheppard Chibuike Agba Russell Edmonds
Team Project's Long Term Goal	The goal of this project is to turn a hybrid General Motors EV 1 into a self-driving electric car.	
Team Project's 2017-2018 Academic Year Goal	To design and install an electric propulsion system for the EV 1 and remove the gasoline dependent parts of the vehicle.	
Problem Statement	Dissatisfied Situations	Itemize: 1. The internal combustion engine of the hybrid vehicle produces greenhouse gases which are harmful to the environment. 2. The combustion engine is less than 35% efficient in turning energy used into miles driven. 3. Human error accounts for 90% of road accidents
	Needs from the Situations	Itemize: 1. A vehicle that does not produce greenhouse gases. 2. An engine that is at least 50% efficient in turning energy used into miles driven 3. Reduce the impact of human error on road accidents.
	1-Sentence Problem/Need Statement	A complete sentence: The hybrid vehicle allows for human error while driving and has an inefficient internal combustion engine that emits greenhouse gases which is why we need to design a vehicle that significantly reduces the impact of human error on road accidents and has a more efficient engine that does not produce gases that are harmful to the environment.