

PROBLEM STATEMENT FORM

Date:

25-Oct-21

Team Name	Aerospace1	
Project Title	Solar Powered Remote Control Vehicle	
Faculty Advisor	Dr. Rubaai	
Graduate Assistant	Selasi Etchey	
Members	Senior Design Class Students	Tyler Borderon
		DeAndra Gayle
		Dymier Steele
		Essien Taylor
	Other students	
Project's Long-Term Goal	Develop low latency telemetry and improve use of GaN-FET technology	
Project's Goal for Senior Design Class	Develop a solar powered remote control car built from the ground up and demonstrate the real time telemetry results and wifi control	
Project's Problem Statement	Needs Statements	Need to record and understand the telemetry of systems
		Need more efficient engines and power conversion
		Need to control car with low latency from a distance
	Benefit Statements	System that keeps track of system health/efficiency
		Wireless control of the vehicle
		DC-DC converter/rechargeable/solar powered battery system for vehicle

Combined 1 sentence Problem Statement	The need of Aerospace in the current situation of finding a way to monitor and record the telemetry of systems, observe and improve upon the efficiency of engines and power conversion, and control the remote controlled car with low latency is to provide a means that keeps track of the system's health, provides an efficient engine and power conversion, and controls the car with low latency.
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