

The Incredible HUD

Purdue University

# TCSP #1 – PSSC PRESENTATIONS

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# PROJECT ABSTRACT

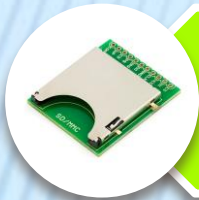
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- ✘ Device will display a spread of data onto the visor of a motor-vehicle helmet.
- ✘ Includes speed, direction (GPS), temperature, rear view camera, and G-force.
- ✘ Display system will be completely helmet based; all functioning sensors and parts will be packaged on the outside surface.
- ✘ User will have the ability to control the information displayed. Additionally the telemetry information will be logged in memory enabling the user to view it at a later time on another computer.

# PROJECT SPECIFIC SUCCESS CRITERIA (PSSC)



PSSC #1 - An ability to display critical system information via heads-up-display.



PSSC #2 - An ability to contain and manage an independent power supply (rechargeable battery pack with power management).



PSSC #3 - An ability to receive and store telemetry information (speed, acceleration, temperature, humidity and GPS).



PSSC #4 - An ability to enable/disable important features within the display (rear view, on/off).



PSSC #5 - An ability to display GPS data on a computer, with corresponding telemetry data overlaid on an interactive map.

# BLOCK DIAGRAM

