

		EE/CpE 423/424 Engineering Design PROJECT/ADVISOR ASSIGNMENT FORM	Group Number:	6
			(Assigned by ECE SD Coordinator)	

Project Title	Mobile Streaming Video
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Brief Project Description:
<p>The goal of our project is to design, build, test and demonstrate a prototype system that will provide real time streaming video between a base station (the dispatcher) and a mobile unit. Additionally the system will provide real time location information of the mobile unit to the base station via a map display. Our system design will be expandable, allowing for easy installation of additional mobile units, and for future technology insertions that would enable communications capabilities between all units (utilizing Voice over IP). The system design will integrate existing technologies of GPS, QuickTime video streaming, cellular radio and database management via a custom web based application that will provide system control and the user interfaces. This application will establish base station and mobile unit interconnectivity, allowing for the ability to see video streams and map plotted GPS data from the mobile unit at the base station. The system will uniquely use cellular modem technology and the commercial cellular network infrastructure for communication, instead of local 802.11 wireless networks, to achieve seamless nationwide connectivity.</p> <p>This application will satisfy the need for a backup unit responding to an emergency location to have a real time visual picture of what is going on at the scene before they arrive. By enabling the base unit and other mobile units to tie into the video stream from the 1st responding unit, the dispatcher and responding units will have a better understanding of the situation, and can prepare in advance. Currently, units are able to record video for later playback, but there is no real time streaming video implemented in existing systems.</p>

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